



# FINAL DRAFT PRELIMINARY ASSESSMENT AT & T BELL LABORATORIES - HOLMDEL FACILITIES HOLMDEL, NEW JERSEY

# FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION SUPERFUND DIVISION

# FINAL DRAFT PRELIMINARY ASSESSMENT AT & T BELL LABORATORIES - HOLMDEL FACILITIES HOLMDEL, NEW JERSEY

#### PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8909-14
CONTRACT NO. 68-01-7346

**FOR THE** 

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

**OCTOBER 19, 1989** 

NUS CORPORATION SUPERFUND DIVISION

**SUBMITTED BY:** 

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PROJECT/MANAGER

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

### **PART I: SITE INFORMATION**

1.			ories-Holmdel Faci	lity	
	Street <u>Crawford</u>	s Corner Road			
	City <u>Holmdel</u>		St	ate New Jersey	<b>Zip</b> <u>07733</u>
2.	County Monmou	uth	Co	ounty Code 025	Cong. Dist. 4
3	EPA ID No. NJDO	11328887			
4.	Latitude 40° 21′	50" N	Lo	ngitude <u>74° 10′ 26" W</u>	
	USGS Quad. Mai	riboro, New Jersey			
5.	Owner AT&T Be	II Laboratories	Te	l. <b>No</b> . (201) 564-2000	
	Street 101 John	F. Kennedy Parkwa	ny		
	City Short Hills		St	ate <u>New Jersey</u>	Zip <u>07078-0905</u>
6.	Operator AT&T i	Bell Laboratories	Te	l. <b>No</b> . <u>(201) 564-2645</u>	
	Street Crawford	s Corner Road			
	City <u>Holmdel</u>		· St	ate <u>New Jersey</u>	<b>Z</b> ip <u>07733</u>
7.	Type of Owners	hip			
		☐ Federal	☐ State		
	☐ County	☐ Municipal	Unknow	n 🔲 Othe	r
8.	Owner/Operato	r Notification on Fi	ile		
	⊠ RCRA 3001	Date <u>8/18</u>	/80 CE	RCLA 103c Dat	e
	☐ None	☐ Unkno	own		
9.	Permit Informat	ion			
	Permit	Permit No.	Date issued	Expiration Date	Comments
	NJDOH* Sanitary	<u>S-12-59-1007</u>	6/6/60	Unknown	
	NJDOH* Industrial	S-2-62-1007A	4/2/62	Unknown	
	NJDOH* Sanitary	<u>5-6-64-2227</u>	7/17/64	Unknown	
	NJDOH* Industrial	<u>\$-2-67-2376</u>	11/68	Unknown	
	Holmdel Twp.	1394	2/28/67	Unknown	

	NJDOH* Sanitary Permit	<u>S-9-71-4160</u>	2/4/72	Unknown		-
	"Y"**	20298	Unknown	Unknown		
	NJPDES	NJ0000477	Unknown			•
	HWMF	1318G1HP01	12/23/88	<u>Unknown</u> 12/23/93		-
		13100111101	12/25/00	12/23/33		-
	NJ Solid Waste Permit	NJSW1211AA	Unknown	Unknown		-
			Jersey Departmer		ın.	
10.	Site Status ⊠ Active	□Inactive	<b>□ U</b>	nknown		
11.	Years of Operati	on <u>1960</u>	to	Present	<del></del>	
	permit application	on that operation	began or construct	ion commenced o	-	
12.	above- or below	v-ground tanks or		reatment, etc.)	nent, piles, stained so on site. Initiate as mar	
	(a) Waste Ma	nagement Areas				
	Waste Unit No.	Wasto	Unit Type	Eaci	lity Name for Unit	
	1	Drums	ome type		um) Storage Area	
	2	Small Containe	ers		ner Storage Area	-
	3	Tank		Tank Storage		-
	Identify any mistheir locations on There have been 1989 while ATO unspecified local around the tank leaked an unknossibly ground NJDEP noted the excavation until that samples of high as 7,000 pppm. The NJDE AT&T submitted they said "show and one sampling tank site." AT&T been completed under the petrosens of their samples of the said "show and one sampling tank site." AT&T been completed under the petrosens of their samples of the said "show and one sampling tank site." AT&T been completed under the petrosens of the samples o	n site.  n no reported spill &T was removing tion on the prope s was noted to b own quantity. T water was contain at the tanks had a further remediat unknown origin a pm." The report P issued a field No a follow-up repo ed total petroleur ing location with be indicated that ren I is unknown. Ho	s or dumping from an old kerosen rty, work crews cape contaminated whe NJDEP noted in a capacity of 550 capaci	any of the units e underground me upon an unk with kerosene fr n its Notificatio ow-up inspection gallons each. Pl l be completed. analyzed and re- at parameter is (NOV) for this in he above except er 100 ppm at th nd xylene (BTX) cegin shortly. Whe	However, on March 2 storage tank from a nown gasoline tank. So om the tank which ha on Report that land ar n on March 30, 1989, th astic was placed over th The report further state vealed "contamination or represented by the 7,00 cident. On April 7, 198 for the lab results which e four sampling location over 1 ppm at the gasoline ether the remediation ha is such as this are exemply mental Responsibilit	27, and oil add ne es as oo one one es as oo
13.	Information ava	ilable from				
	Contact Amy B		Agency HS 50	-Δ	Tel. No. (201) 906-6802	,
		s Frost			Date October 19, 1989	
	rieparer Jaime	317036	Agency NUSCO	ip. negioni z fil	wate October 13, 1303	

#### PART II: WASTE SOURCE INFORMATION

			·	•	•	
Waste Unit	1	-	Drums		Container (Drum) Storage Area	

For each of the waste units identified in Part I, complete the following six items.

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

On August 18, 1980, AT&T filed a Notification of Hazardous Waste Activity. In the Notification, AT&T declared that it had eight hazardous wastes from non-specific sources, fifty-one commercial chemical product hazardous wastes, ignitable wastes, and two 55-gallon drums of waste oil storage.

On November 19, 1980, AT&T filed a Part A permit application. In the application, AT&T stated that it had a process design capacity of 110 gallons for activity SO1 (drums). The application did not identify any wastes that were stored in drums.

On September 4, 1981, the NJDEP performed an inspection at the site. No violations were noted during the inspection and no NOVs were issued.

On August 3, 1983, the NJDEP wrote a letter to confirm the conclusions of a July 29, 1983 meeting between the NJDEP and AT&T. The purpose of the meeting was to discuss how AT&T should handle its satellite facilities in relation to hazardous waste treatment regulations. It was concluded that the smaller facilities would be construed as small quantity generators and that only the Holmdel facility would have to register as a TSD facility since it accepted the wastes from the smaller facilities and held them for longer than ninety days. According to the NJDEP, these wastes from the other facilities did not have to manifested but a permitted hazardous waste hauler must be used to transport the wastes to the Holmdel facility. It was suggested that AT&T might wish to register one of its trucks for this purpose.

On November 17 or 21, 1983, the NJDEP conducted an inspection at the site. (The inspection form indicates both dates for a one-day inspection). The inspection form identifies the containment system but also identifies a problem with the drums themselves. According to the inspection, "some drums have duct tape covering the posts." The report concluded that this method of closing drums was questionable to prevent the escape of hazardous waste or its vapors. No further discussion of the drums is presented. No NOVs are on record as having been issued as a result of this inspection.

On June 4, 1984, AT&T filed a revised Part A permit application. In this application, AT&T identified several hazardous materials that were drummed and a process design capacity of 975 gallons for this unit.

On June 26, 1984, the NJDEP responded to the application. Although, the application stated that the design capacity is 975 gallons for this unit, the NJDEP letter indicates that the NJDEP accepted the application and identified the unit's capacity as 575 gallons. The letter further states that the NJDEP would request the U.S. EPA to revise its data bank accordingly. On December 6, 1985, the NJDEP requested AT&T to submit a complete New Jersey Hazardous Waste Facility Permit Application.

In May, 1986, AT & T filed a Part B RCRA Permit application which included the 1984 Part A application, sampling data and a description of the processes used at AT&T. The application indicates that the drum storage area is a concrete pad 14.2 feet by 39.5 feet with a curbing 6 inches high. The curbing is only on three sides and the bottom slopes away from the non-curbed side to a collection drain. The drain is connected to the waste storage tank. Drums are stored on the pad on wooden pallets. Other investigations have noted that there is a manually operated valve on the drain which is normally closed, thus directing any liquids on the pad to the waste storage tank. However, this valve may be opened to allow accumulated rainwater to drain to a nearby creek. On September 22, 1986, the NJDEP responded to the permit application indicating there were several deficiencies which needed correction.

On September 26, 1986, the NJDEP conducted an inspection of the site. The notes from the inspection describe the unit, as noted above. No violations concerning the drum storage area were identified. There is no record to indicate that an NOV was issued because of the inspection.

On November 18, 1986, the NJDEP granted AT&T an extension of an October 22, 1986 due date for the submission of soil sampling and other analytical data. The new due date was established as December 3, 1986 for the submission of this data as a part of the Part B Permit Application.

On December 3, 1986, AT&T responded to the NJDEP September 26, 1986 review letter and provided the information that the NJDEP requested in the September review letter. On December 16, 1986, the NJDEP sent a letter to AT&T indicating that the application was now considered administratively complete and provided an estimated schedule for issuing a Hazardous Waste Management Facility (HWMF) permit.

On May 22, 1987, the NJDEP issued another review letter of the permit application. The letter indicates that "all appropriate outside agencies" have reviewed the application and that correction of several deficiencies was needed.

According to a June 8, 1988, letter from the NJDEP, AT&T responded to the May 22, 1987 review letter on August 27, 1988. The exact contents of the August 27, 1987 letter are not known but are presumed to be responses to the NJDEP's review comments. However, the June 8, 1988, letter from the NJDEP indicates that permit application was now considered technically complete.

On August 18, 1988, the NJDEP conducted another inspection. The notes from the inspection indicate that the drum storage unit was in compliance with the provisions of the draft HWMF permit. The notes do not indicate that there were any violations found that were associated with this unit. There is no record to indicate that any NOVs were issued because of this inspection.

On December 23, 1988, the NJDEP issued a HWMF permit to AT&T for the Holmdel facility. The permit number is 1318G1HPO1 and it expires on December 23, 1993. Under Authorized Activities on Page 15 of 31 of the permit, AT&T "is authorized to store on-site generated wastes, as well as wastes generated at company-owned off-site locations, in containers (drums) on the concrete pad . . ." The pad is required to be six inches thick and the drums must be placed on wooden pallets. The permit further states that the control valve on the drain line from the concrete basin shall be kept in the closed position and that it may be opened only to drain the accumulated rainfall only if there are no visible hazardous waste spills and the accumulated liquid is analyzed and meets AT&T's NJPDES permit limits.

On March 31, 1989, the NJDEP conducted an inspection of the site. No environmental violations were noted with this unit. However, a field NOV was issued because AT&T did not conduct semiannual drills with all employees (there are 6,000 or 7,000 employees at this location) and local officials, even though AT&T has its own fire department and its own hazmat team. The NOV also cited AT&T for not requesting an exemption from the semiannual drills.

On April 11, 1989, the NJDEP approved the facility layout and design of the waste storage areas. Submittal of this information was required by Condition 12 (a) (1) of Section I of the permit.

#### 2. Describe the location of the waste unit and identify clearly on the site map.

From available background information, the unit is located near the entrance to the service road for the laboratory waste treatment plant. The waste treatment plant is about 800 feet west of the main building.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

Several observations of the quantity of wastes in this unit have been made. Obviously, these quantities will vary based upon wastes on hand during the NJDEP inspections. However, the capacities identified in permit applications and responses from the NJDEP also vary causing some confusion. For the purposes of this report, the permitted capacity of this unit will be used, which is 935 gallons or seventeen 55 gallon drums. The following is a summary of observations by the NJDEP and reports by AT&T concerning quantities and capacities associated with this unit.

- 1. On August 18, 1980, AT&T stated in a Part A permit application that it had a process design capacity of 110 gallons. No estimated annual quantities were given for this unit.
- 2. On September 4, 1981, the NJDEP observed five 60-gallon drums of plating solution.
- 3. A NJDEP computer printout identifies the process design capacity as 575 gallons on March 2, 1983.
- 4. On November 21, 1983, ten 55-gallon drums of corrosives were observed during an NJDEP inspection.
- 5. On June 4, 1984, AT&T identified a process design capacity of 975 gallons for this unit and an estimated annual quantity of 22,520 pounds.
- 6. On June 26, 1984, the NJDEP identified the capacity of the unit as 575 gallons in a letter.
- 7. In the May, 1986 Part B Permit Application, AT&T stated the design capacity as 575 gallons.
- 8. On September 26, 1986, the NJDEP observed eight 55-gallon drums in the unit during an inspection.
- 9. On December 3, 1986, on page 15-1 of the Closure Plan in the revised Part B permit application, AT&T said the capacity was 950 gallons.
- 10. On August 18, 1988, during an inspection, the NJDEP observed thirteen 55-gallon drums.
- 11. The HWMF permit, issued December 23, 1988, states the capacity as 935 gallons or seventeen 55-gallon drums or an equivalent in 30-gallon drums.
- 12. On March 31, 1989, the NJDEP observed four 55-gallon drums during an inspection.
- 4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

All of the wastes stored in this unit are liquids. However, on March 31, 1989, the NJDEP observed one 55-gallon drum of corrosive solids in this unit during an inspection.

5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

Hazardous substances identified by the NJDEP and AT&T are: spent halogenated solvents; spent nonhalogenated solvents; wastewater treatment plant sludges from electroplating processes; spent cyanide plating bath solutions; cyanide plating bath sludges and bottoms; spent cyanide stripping and cleaning bath solutions; ammonium picrate; barium cyanide; brucine; calcium cyanide; carbon disulfide; cyanides (NOS); potassium cyanide; sodium azide; sodium cyanide; acetone; acetonitrile; chloroform; hydrofluoric acid/hydrogen fluoride; mercury; methyl ethyl ketone; tetrachloromethane; toluene; 1,1,1-trichloroethane; trichloroethene; xylene; corrosives; paint thinner; reactives; flammable liquids; cleaning

liquid; ammonium hydroxide; ammonium chloride; copper; tetrachloroethylene; trichloroethylene; methylene chloride; carbon tetrachloride; chlorobenzene; 1,1,2-trichloro-1,2,2 trifluoroethane; o-dichlorobenzene; trichlorofluoromethane; 1,1,2-trichloroethane; ethyl acetate; ethyl benzene; ethyl ether; methyl isobutyl ketone; n-butyl alcohol; cyclohexanone; methanol; cresols and cresylic acid; nitrobenzene; isobutanol; pyridine; benzene; 2-ethoxyethanol; and 2-nitropropane.

6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The drum storage area is located on a concrete pad which is bermed to provide containment and because there is the pad and a drain for the pad, soils and groundwater are protected from any leaks or spills. The drain line is provided with a valve to divert flows to either the receiving stream or to the waste storage tank. Thus, through operator error, a discharge to the receiving stream is possible if the valve is left open. Therefore, containment for surface water migration of contaminants from this unit is minimal. The unit is outside and no containment is provided for an air release. Based on the high assumption that the berm is six inches high, the pad provides containment for 2,100 gallons. A more realistic assumption would be to assume an even slope across the pad from zero to six inches and assume an average depth of three inches, thus providing containment for about 1,050 gallons which is still more than the permitted capacity of the unit.

Ref. Nos.	1 through 28, 43, 44	
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Small Container Storage Area

#### PART II: WASTE SOURCE INFORMATION

Waste Unit 2 -

For each of the waste units identified in Part I, complete the following six items.	

Small Containers

Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

On August 18, 1980, AT&T filed a Notification of Hazardous Waste Activity. In the Notification AT&T declared that it had eight hazardous wastes, ignitable wastes, and two 55-gallon drums of waste oil.

On November 19, 1980, AT&T filed a Part A Permit Application. The application does not specifically address this unit. This unit stores small quantity wastes from other AT&T facilities until they can be properly disposed. These wastes are generated in small quantities. They are stored in a cabinet and later drummed when ready for disposal. A small drum storage area for waste oil is adjacent to this unit.

On September 4, 1981, the NJDEP conducted an inspection of the site. The notes from the inspection do not specifically address this unit other than to say that the site receives wastes from other AT&T facilities. No violations were observed and there is no record to indicate that any NOVs were issued as a result of the inspection.

On August 3, 1983, the NJDEP issued a letter confirming negotiations with AT&T concerning the small quantity wastes received from other AT&T facilities. The letter indicates that a revised Part A Permit Application must be submitted to account for these wastes but that the shipments of the wastes to the Holmdel facility do not have to be manifested. A permitted hazardous waste hauler is not needed for the shipment of these wastes but a permitted solid waste hauler is required.

On November 21, 1983, the NJDEP observed about 100 bottles in lab packs and an unspecified amount of waste oil. No other observations of this unit were made and there is no record to indicate that any violations were found. No NOVs were issued as a result of this inspection.

The June 4, 1984 revised Part A Permit Application submitted by AT&T addresses this unit. Eleven hazardous substances are identified in the application. The Part B application, submitted in May 1986, contains a revised Part A application which identifies only four hazardous substances and waste oil in this unit. The narrative in this application also indicates that this unit consists of two masonry block rooms and one flammable liquid storage cabinet. It also states that this unit receives small amounts of waste chemicals from miscellaneous laboratory operations within the Holmdel facility. The materials are periodically packaged (lab packed) by an outside contractor for treatment or disposal.

On September 22, 1986, the NJDEP sent a review letter to AT&T indicating that the application was not approved. A number of deficiencies were noted and AT&T was given 30 days to provide the additional information.

On September 26, 1986, the NJDEP made an inspection of the site. Notes from the inspection reveal that this unit is "...located within the laboratory wastewater treatment facility. The area consists of two masonry block rooms and one flammable liquid storage cabinet. In the same area but outside the building waste oil is stored in a ten foot by ten foot metal shed with 4 inch curbing for containment." The chemical wastes are derived from laboratories within the Holmdel facility and waste oils are generated from servicing vacuum pumps, air compressors, and vehicles. No further observations are noted and no violations are discussed in the notes. There is no record to indicate that an NOV was issued as a result of this inspection.

On November 18, 1986, the NJDEP granted an extension of time to AT&T to submit the revised Part B permit application. The new submission date was set at December 3, 1986. On December 3, 1986, AT&T submitted the additional information in a revised Part B Permit Application. The narrative of the application indicates that an exhaust system for the masonry block rooms and the storage cabinet is provided. The exhaust system is vented to the outside atmosphere and safety equipment is provided in an adjacent room. The application also identified a closure plan for this unit.

On December 16, 1986, the NJDEP sent AT&T a letter stating that the application was administratively complete. The letter proposes a schedule for issuing a permit including performing a technical review of the application. On May 22, 1987, the NJDEP sent a technical review letter on the application. Thirteen deficiencies, some with several subparts, were listed. On June 8, 1988, the NJDEP wrote a letter referencing an August 27, 1987 submittal by AT&T. Apparently in August, AT&T submitted the requested information and the purpose of this June 8, 1988 letter was to state that the application was now technically complete.

On August 18, 1984, the NJDEP conducted another inspection of the site. The notes of the inspection indicate that "...AT&T is in compliance with conditions of the draft permit..." No violations were noted and there is no record to indicate that any NOVs were issued as a result of this inspection. However, discussions during the inspection must have included AT&T's shipment of wastes from other sites since an August 29, 1988 letter responds to this issue.

On December 23, 1988, the NJDEP issued a HWMF permit to AT&T. The permit authorizes AT&T to store hazardous waste in small containers and to receive wastes from the Crawford Hill, Middletown and Red Hill facilities. The permit allows forty gallons of liquids, semiliquids, semisolids and solids to be stored in masonry room No. 1 for acids and oxidizers. Forty gallons of liquids, semiliquids, semisolids and solids are allowed to be stored in masonry room No. 2 for caustics and cyanides. Finally, fifteen gallons of flammables and reactives are allowed to be stored in the flammable liquids storage cabinet. The permit requires adequate containment for all spills within this unit. The permit does not specifically address the waste oil storage area in this unit but does allow waste oils to be stored in the unit.

On March 31, 1989, the NJDEP performed an inspection of the site. The unit was found to be in compliance with all rules except those pertaining to semiannual drills and coordination with local authorities. A field NOV was issued for these nonenvironmental violations. The notes also provide an eight page log of the contents of the two rooms and the cabinet.

On April 11, 1989, the NJDEP issued a letter approving AT&T's site layout and design of the hazardous waste storage area. This submittal was made to fulfill Condition 12 (a) (1) of Section 1 of the HWMF permit.

2. Describe the location of the waste unit and identify clearly on the site map.

The masonry rooms and the storage cabinet are located inside the laboratory waste treatment building which is about 800 feet west of the main building. The oil storage area is located outside the building adjacent to the masonry rooms. The exact location of the portion of the unit inside the building is unknown.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

The permit allows forty gallons of wastes to be stored in Room No. 1, forty gallons in Room No. 2 and fifteen gallons in the flammable storage cabinet. The waste oil storage is unspecified. The greatest quantity of waste oil that had been observed by the NJDEP was two drums.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The permit allows liquids, semiliquids, semisolids and solids to be stored in this unit.

5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

The HWMF permit allows storage of the following hazardous wastes: ignitables; corrosives; reactives (potassium borohydride, rubidium, barium, sodium in solvent, calcium turnings, and magnesium powder); EP toxic arsenic; EP toxic barium; EP toxic cadmium; EP toxic chromium; EP toxic lead; EP toxic mercury; EP toxic selenium; EP toxic silver; tetrachloroethylene; methylene chloride; 1,1,1-trichloroethane; carbon tetrachloride; chlorinated fluorocarbons; trichloroethylene; chlorobenzene; 1,1,2-trichloro-1,2,2-trifluoroethane, o-dichlorobenzene; trichlorofluoromethane; 1,1,2-trichloroethane; xylene; acetone; ethyl acetate; ethyl benzene; ethyl ether; methyl isobutyl ketone; n-butyl alcohol; cyclohexanone; methanol; cresols and cresylic acid; nitrobenzene; toluene; methyl ethyl ketone; carbon disulfide; isobutanol; pyridine; benzene; 2-ethoxyethanol; 2-nitropropane; spent cyanide plating solutions from electroplating operations; waste automotive and crankcase oil; oil spill cleanup residues; metal working oils; turbine lubricating oil; diesel lubricating oils; quenching oils; waste oil from electric transformers with less than 50 ppm polychlorinated biphenyls (PCBs); any discarded or off-spec commercial chemical products; packed laboratory chemicals; nonhazardous liquid waste; nonhazardous solid waste; and poisons and pesticides NOS.

6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The portions of the unit located inside the building are provided with containment and, thus, adequate containment is provided for both groundwater and surface water migration pathways. Forced ventilation is provided for the indoor portions but they are vented to the outside. Therefore, no containment is provided for the air pathway. The waste oil storage area is in a metal shed on a concrete pad with a four inch berm. With the dimensions of the shed being 10 feet by 10 feet, containment for about 250 gallons is provided. This is adequate to protect against migration to surface or groundwater pathways. No containment is provided for air.

Ref. Nos.	1 through 28	

#### PART II: WASTE SOURCE INFORMATION

For each of t	he wast	te un	its identified in Part I, com	plete the following six items.
Waste Unit	_3_	-	Tank,	Tank Storage Area

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

On August 18, 1980, AT&T filed a Notification of Hazardous Waste Activity. In the Notification, AT&T declared that it had eight hazardous wastes from non-specific sources, fifty-one commercial chemical product hazardous wastes, ignitable wastes, and two 55-gallon drums of waste oil storage.

On November 19, 1980, AT&T filed a Part A Permit Application. It stated the capacity of the unit is 6,000 gallons and estimated the annual quantity of waste in this unit as 7,153 pounds.

On September 4, 1981, the NJDEP conducted an inspection of the site. Notes from the inspection do not indicate that there were any violations and the record does not indicate that any NOVs were issued as a result of the inspection.

On November 21, 1983, the NJDEP conducted an inspection of the site. No violations were noted during the inspection concerning this unit and there is no record to indicate that any NOVs were issued as a result of this inspection.

On June 4, 1984, AT&T refiled its Part A Permit Application. In this application AT&T claimed that the capacity of the tank remained unchanged but that the estimated annual quantity of waste in this unit increased from 7,153 pounds to 42,500 pounds. On June 26, 1984, the NJDEP accepted this revised application and requested that the U.S. EPA revise its data bank.

On December 6, 1985, the NJDEP requested AT&T to revise its Part A Permit Application to comply with New Jersey law. AT&T was given three months to submit portions of the revised application and six months to submit the other portions. In May 1986, AT&T submitted the requested information with no changes concerning this unit. The narrative in the application indicated that the tank is lined, made of steel and located below grade in a vault which is 21 ft by 11 ft by 12.5 ft deep. The vault is made of concrete which is fourteen inches thick and epoxy coated inside and outside. The vault has a sump and a forced ventilation system. A steel grate covers the vault and the vault area is roofed but there are no sides to the covering structure. The tank, according to the applications, receives wastes from the main building laboratories and these wastes are manually poured into the tank.

On September 22, 1986, the NJDEP issued a review letter stating that further information was needed. Numerous deficiencies were noted and AT&T was given 30 days in which to reply and submit the requested data.

On September 26, 1986, the NJDEP conducted an inspection of the site. No violations were found associated with this unit and the record does not indicate that any NOVs were issued as a result of the inspection.

On November 18, 1986, the NJDEP wrote a letter to AT&T granting an extension for the submission of additional data for the Part B Permit Application. The extension to December 3, 1986 was needed so that AT&T could submit a soil sampling and analytical data plan.

On December 3, 1986, AT&T submitted the data requested in the NJDEP's September 22, 1986 review letter. AT&T responded to each item in the review letter and provided a revised Part B permit application. The revised application does not provide any new information on this unit.

On December 16, 1986, the NJDEP issued a review letter on the application. The letter indicates that the application was administratively complete and outlines a schedule for issuance of a HWMF permit.

On May 22, 1987, the NJDEP issued a technical review letter to AT&T. The letter identifies thirteen deficiencies which need correction. A June 8, 1988, review letter from the NJDEP indicates that AT&T responded to the review comments on August 27, 1987. The June 8, 1988, review letter indicates that the Part B permit application. "... can be considered technically complete."

On August 18, 1988, the NJDEP performed an inspection of the site. Notes from the inspection indicate that AT&T was in compliance with the terms and conditions of the draft permit. No violations were noted during the inspection and the record does not indicate that any NOVs were issued as a result of this inspection.

On December 23, 1988, the NJDEP issued a HWMF permit to AT&T. The permit allows the use of this unit subject to many conditions such as roofing, lining and shell thickness requirements, and training reporting requirements.

On March 27, 1989, gasoline and kerosene tanks were being unearthed. These tanks are not a part of this unit. The NJDEP made an inspection of the tanks and issued a field NOV for this incident. AT&T responded to the NOV on April 7, 1989 as to their actions and intentions. For further information on this incident, please see Part I, Item 12 (b).

On March 31, 1989, the NJDEP conducted another inspection of the site. The notes of the inspection identified no environmental problems with this unit. The inspector noted that semi-annual drills are not conducted with all staff and there is not adequate coordination with local officials. A field NOV was issued for these violations.

On April 11, 1989, the NJDEP approved the facility layout and design of the hazardous waste storage areas, including this unit. These designs were submitted by AT&T as required by the HWMF permit.

2. Describe the location of the waste unit and identify clearly on the site map.

According to data submitted by AT&T, the unit is located just south of the intersection of the ring (oval-shaped) drive around the main building and the service road to the laboratory waste treatment plant.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

This unit has a permitted capacity of 6,000 gallons. The largest volume of waste observed in this unit by the NJDEP is 5,000 gallons.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The physical state of all substances in this unit is liquid.

5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

AT&T is authorized to store the following wastes in this unit: rinse waters and aqueous wastes generated on-site and wastes generated off-site; corrosives; EP toxic arsenic; EP toxic barium; EP toxic cadmium; EP toxic chromium; EP toxic lead; EP toxic mercury; EP toxic selenium; EP toxic silver; and nonhazardous liquid waste.

6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The tank is epoxy-lined and in a below grade vault. The vault is also coated inside and out and is fourteen inches thick. The vault has a sump and its volume can hold the entire contents of the tank. Therefore, adequate containment for surface and groundwater pathways is provided. The tank is essentially open to the air. It is covered with a grate and a roof. A forced ventilation system is provided for personnel entering the vault and this is vented to the atmosphere. No containment is provided for the air pathway.

Ref.	Nos.	<u> </u>	hrough	28			
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#### PART III: HAZARD ASSESSMENT

#### **GROUNDWATER ROUTE**

1. Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

The likelihood of a release to groundwater from any of the permitted units is rated as none. The drums are stored on a concrete pad which is bermed. The small container storage area is inside a building and the 6,000 gallon tank is in a 14 inch thick vault. Containment is provided for each unit to prevent any leaks to the ground. However, AT&T has had a release from a leak in a kerosene tank. The current status of that situation is unknown.

Ref. Nos. 2, 3, 6, 10, 12, 14, 18, 20, 21, 22, 23, 24, 25, 26, 28

2. Describe the aquifer of concern; include information such as depth, thickness, geologic composition, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.

Monmouth County lies on the Atlantic Coastal Plain. It is underlain by unconsolidated sediments of Mesozoic and Cenozoic age. The Coastal Plain sediments, which are marine in origin, range from 500 feet thick in the northwestern part of the county to more than 1,200 feet thick in the southeastern part of the county. These sediments consist of sands, silts and clays and green sands or glauconitic sands with interspersed gravel beds. There does not appear to be any confining layers between the surface and bedrock which is about 600 to 700 below the surface in this area.

A well log of the nearest well to AT&T's property reveals the following:

Cretaceous	Thickness (feet)	Depth (feet)
Red Bank Sand	10	10
Navesink Marl	20	30
Wenonah and Mt. Laurel Sands	80	110
Marshalltown Formation (sand and clay)	30	140
Englishtown Sand	70	210

According to data from the U.S. Geological Survey, this same well has a static water level of 50 feet below the surface. Other wells in the immediate vicinity off of AT&T's property have static water levels ranging from 43 to 75 feet below the surface. The direction of groundwater flow is unknown, but is presumed to be in a southerly direction due to surface topography.

Ref. Nos. 14, 30, 31

3. Is a designated sole source aquifer within 3 miles of the site?

The site lies on the New Jersey Coastal Plain Aquifer System which was designated a sole source aquifer on June 24, 1988.

Ref. No. 33

4. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?

The depth from the lowest point of storage, which is the 6,000 gallon tank, 12.5 feet below grade, to static water level is 37.5 feet.

Ref. Nos. 14, 30

5. What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?

The permeability value of the least permeable stratum is 10<sup>-5</sup> to 10<sup>-7</sup> cm/sec.

Ref. No. 34

6. What is the net precipitation for the area?

The net precipitation is estimated to be 11.5 inches.

Ref. No. 34

7. Identify uses of groundwater within 3 miles of the site (i.e., private drinking source, municipal source, commercial, industrial, irrigation, unusable).

Groundwater is used for domestic, commercial, industrial and irrigational purposes.

Ref. Nos. 35, 36

8. What is the distance to and depth of the nearest well that is currently used for drinking or irrigation purposes?

Distance	0.7 mile	Depth 210 feet
The nearest	well is the Harding well which is sou	theast of the site.
_		

Ref. No. 14

9. Identify the population served by the aquifer of concern within a 3-mile radius of the site.

Only five to ten percent of water used for domestic purposes comes from ground water for the New Jersey American Water Company. This company serves about 500,000 people in this area but has no wells within three miles of the site. The Shoreland Water Company gets all of its water from wells and it serves Holmdel. Shoreland serves about 35,000 people. None of Shoreland's wells are within three miles of the site. Seven private wells exist within one mile of the site. Assuming 3.5 persons per home, about 25 people are served by private wells within one mile of the site. Also, the Matawan Township Municipal Utility Authority and the New Jersey Highway Authority have wells within three miles of the site. The service population for the Highway Authority is unknown but Matawan services 2,500 customers.

Ref. Nos. 14, 21, 35, 36, 45

#### SURFACE WATER ROUTE

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminants to the facility.

The potential of a release to surface water from the 6,000 gallon tank and the small container storage area is rated as none. However, the potential exists for a release from the drum storage area. The drain line from the concrete pad is valved with a manually operated valve. The valve is to be kept closed, thus, directing flows on the pad to the 6,000 gallon waste storage tank. However, the valve may be opened to allow flows to be directed to the receiving stream. AT&T is permitted to discharge accumulated rainfall from the pad to the receiving steam; however, operator error is possible, thus, allowing the discharge of contaminants to the stream.

Ref. Nos. 2, 3, 6, 10, 12, 14, 18, 20, 21, 22, 23, 24, 25, 26, 28

11. Identify and locate the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.

Depending upon the source of data used, the nearest downstream waterway is an unnamed tributary of Hop Brook (USGS topo map) or an unnamed tributary of Ramanessin Brook (Hagstorm Monmouth County map). They appear to be different names for the same waterway. The unnamed tributary appears to be about 250 feet to the southeast from the site according to USGS maps. AT&T has referred to the receiving stream as Ramanessin Brook in its permit applications.

Ref. Nos. 37, 38

12. What is the facility slope in percent? (Facility slope is measured from the highest point of deposited hazardous waste to the most downhill point of the waste area or to where contamination is detected.)

The facility slope is estimated to be eight percent from USGS topo maps.

$$\frac{120 \text{ ft MSL} - 100 \text{ ft MSL}}{250 \text{ ft}} \times 100 = 8\%$$

Ref. No. 37

13. What is the slope of the intervening terrain in percent? (Intervening terrain slope is measured from the most downhill point of the waste area to the probable point of entry to surface water.)

The slope of the intervening terrain is estimated to be twelve percent.

$$\frac{120 \text{ ft MSL} - 90 \text{ ft MSL}}{250 \text{ ft}} \times 100 = 12\%$$

Ref. No. 37

14. What is the 1-year 24-hour rainfall?

The 1-year 24-hour rainfall is estimated to be about 2.75 inches.

Ref. No. 34

15. What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.

The distance to the unnamed tributary to Ramanessin (Hop) Brook is estimated to be 250 feet.

Ref. Nos. 37, 38

16. Identify uses of surface waters within 3 miles downstream of the site (i.e., drinking, irrigation, recreation, commercial, industrial, not used).

The receiving stream enters Swimming River Reservoir about 2.8 miles downstream of the site. The reservoir is used as a primary drinking water source and for recreation. The State of New Jersey has designated the following uses for Ramanessin (Hop) Brook: maintenance, migration and propagation of the natural and established biota; primary and secondary recreation; industrial and agricultural water supply; public potable water supply after such treatment as required by law; and, any other reasonable uses. It is also intended to be a trout maintenance stream.

Ref. Nos. 31, 32, 35

17. Describe any wetlands, greater than 5 acres in area, within 2 miles downstream of the site. Include whether it is a freshwater or coastal wetland.

Portions of Hop Brook (USGS designation) have been identified as a palustrine, forested, broad-leaved, deciduous wetland. Also, approximately 2.0 miles from the site, prior to entry into Swimming River reservoir, the stream discharges into a swamp.

Ref. Nos. 37, 39

18. Describe any critical habitats of federally listed endangered species within 2 miles of the site along the migration path.

There is no record of any federally listed endangered species within 2 miles of the site.

Ref. Nos. 31, 40

19. What is the distance to the nearest sensitive environment along or contiguous to the migration path (if any exist within 2 miles)?

The distance to the nearest sensitive environment, a freshwater wetland contiguous to the migration path, is about 1,000 feet.

Ref. No. 39

20. Identify the population served or acres of food crops irrigated by surface water intakes within 3 miles downstream of the site and the distance to the intake(s).

Swimming River Reservoir is about 2.8 miles downstream; however, the intake is about 5.7 miles downstream. New Jersey American Water Company serves about 500,000 people from this plant.

Ref. Nos. 35, 37

21. What is the state water quality classification of the water body of concern?

Ramanessin (Hop) Brook is classified FW2-TM which means it is a fresh water stream intended to support trout throughout the year.

Ref. Nos. 41

22. Describe any apparent biota contamination that is attributable to the site.

No biota contamination attributable to this site has been noted.

Ref. Nos. 3, 6, 12, 18, 26, 29

#### **AIR ROUTE**

23. Describe the likelihood of a release of contaminant(s) to the air as follows: observed, alleged, potential, none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

There is little potential for a release to air. Even though drums are stored outside and units are vented (by forced ventilation) to the outside, there is no record to indicate that adequate containment has not been provided. The tanks and the drums have not been noted to be in bad condition.

Ref. Nos. 3, 6, 12, 18, 26

24. What is the population within a 4-mile radius of the site?

The population within a 4-mile radius is estimated to be about 43,400 people.

Ref. No. 42

#### FIRE AND EXPLOSION

25. Describe the potential for a fire or explosion to occur with respect to the hazardous substance(s) known or suspected to be present on site. Identify the hazardous substance(s) and the method of storage or containment associated with each.

The potential for fire or explosion is low. Flammable liquids are kept in a special cabinet for this purpose and incompatible wastes are segregated. AT&T has its own fire department and hazmat team.

Ref. Nos. 3, 6, 12, 14, 18, 26

26. What is the population within a 2-mile radius of the hazardous substance(s) at the facility?

The population within a 2-mile radius is estimated to be about 4,600 people.

Ref. No. 42

#### **DIRECT CONTACT/ON-SITE EXPOSURE**

27. Describe the potential for direct contact with hazardous substance(s) stored in any of the waste units on site or deposited in on-site soils. Identify the hazardous substance(s) and the accessibility of the waste unit.

The potential for direct contact is considered low. All of the units are about 0.25 mile from the nearest public road. All of the units are either inside a building or shed or are fenced with six foot high chain link fence. Security is provided 24 hours per day and security personnel would be able to see any unauthorized personnel on the grounds due to the size of the facility and the conditions in which the grounds are kept.

Ref. Nos. 3, 6, 12, 14, 18, 26, 29

28. How many residents live on a property whose boundaries encompass any part of an area contaminated by the site?

The only contamination which is alleged to have occurred, is the kerosene leak investigated on March 30, 1989. The current status of this situation is unknown. There are no homes near any of the units.

Ref. No. 22, 23, 29

29. What is the population within a 1-mile radius of the site?

The population within a 1-mile radius is estimated to be about 670 people.

Ref. No. 42

#### PART IV: SITE SUMMARY AND RECOMMENDATIONS

AT&T Bell Laboratories is located on a 500 acre tract on Crawfords Corner Road in Holmdel, Monmouth County, New Jersey. The facility is claimed to be the largest telecommunications research and development laboratory in the world. The waste site is active and AT&T admits in its filings for permit applications that it does not anticipate closing the site in the foreseeable future. According to the AT&T filings, the laboratory was built in 1960 but transport, storage, and disposal facility (TSDF) activities were reported to have begun in 1971.

The area of concern is located, according to AT&T and NJDEP data, towards the rear of the property. The site contains three waste units: a drum storage area, a 6,000 gallon waste storage tank, and a small container storage area. Wastes are only stored at the site until these wastes are manifested and disposed of off-site. Wastes stored at the site are solvents, paint thinners, plating material, waste oils and small quantities of wastes from other AT&T facilities. The facility has received a New Jersey Pollution Discharge Elimination System permit, local sanitary discharge permit, and New Jersey sanitary and industrial permits.

The site was also permitted by the NJDEP on December 23, 1988 under Hazardous Waste Management Facility Permit 1318G1HP01. The site was permitted for the three units noted above. No environmental violations have been noted during any inspections by the NJDEP. However, on March 31, 1989, the NJDEP noted that AT&T does not hold semiannual drills with all employees and does not coordinate with local officials. It should be noted that the main building which houses the approximately 6,000 employees is about 1,000 feet from the waste site and that AT&T has its own fire department and haz-mat team. AT&T was issued an NOV for these violations. The status of resolving these violations is unknown.

On March 27, 1989, AT&T was removing an abandoned 550 gallon kerosene tank and encountered another abandoned 550 gallon tank that had been used for storing gasoline. AT&T notified the NJDEP that soil contamination in the area of the tanks had occurred. The NJDEP investigation notes do not indicate the location of these tanks but does state that soil samples were taken. The notes further indicate that "results came back with contamination as high as 7,000 ppm." The parameters which were analyzed are unknown. In a letter discussing this incident, AT&T reported sample analyses which showed total petroleum hydrocarbons over 100 ppm at four sampling locations and "... BTX over 1 ppm at the gasoline tank site." The NJDEP issued a field NOV for the incident. The status of remediation is unknown and the incident is excluded from CERCLA consideration because of the petroleum exclusion provision.

The potential for direct contact by any unauthorized personnel is low. The facility is very large, 24-hour security is provided, and any unauthorized personnel on the facility grounds would be stopped prior to gaining access to any buildings. The waste units are either inside buildings, sheds, or are fenced within a six foot high chain link fenced area.

Other than the incident noted above, AT&T has no clean-up actions initiated or scheduled. No enforcement actions are known to have been initiated. Because of the nature of the site and its history of operation, a recommendation of NO FURTHER REMEDIAL ACTION PLANNED is made.

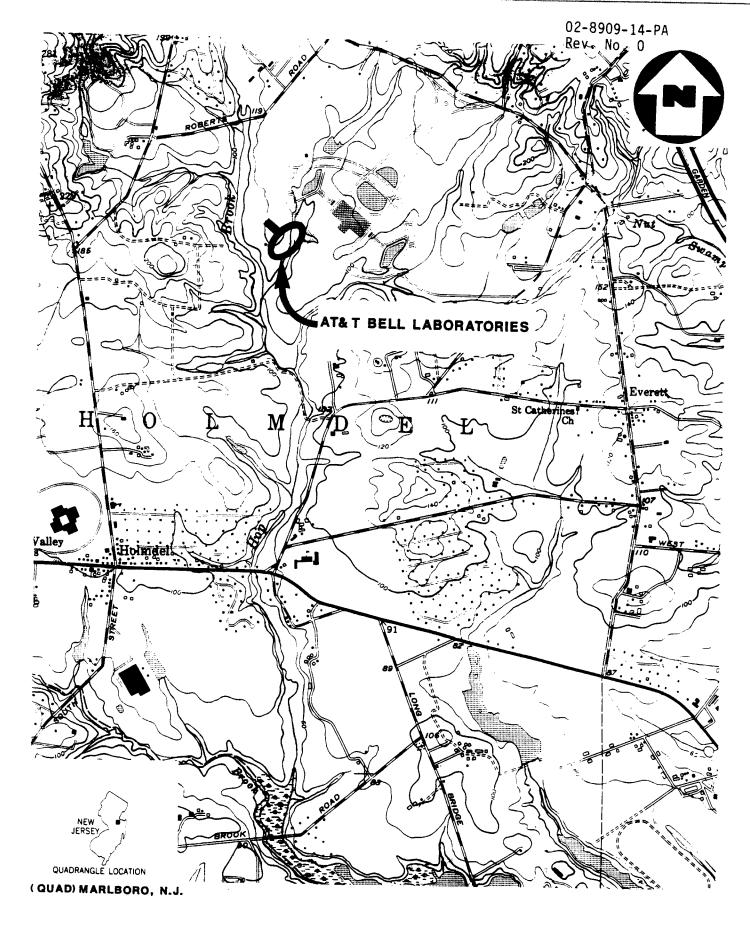
ATTACHMENT 1

#### AT & T BELL LABORATORIES-HOLMDEL HOLMDEL, NEW JERSEY

#### **CONTENTS**

Figure 1: Figure 2: Exhibit A:

Site Location Map Site Map Photograph Log



SITE LOCATION MAP

AT&T BELL LABORATORIES, HOLMDEL, N.J.

SCALE: 1'= 2000'

FIGURE 1



# SITE MAP AT&T BELL LABORATORIES, HOLMDEL, N.J.

NOT TO SCALE

FIGURE 2



#### **EXHIBIT A**

PHOTOGRAPH LOG

AT&T BELL LABORATORIES-HOLMDEL HOLMDEL, NEW JERSEY

**SEPTEMBER 26, 1989** 

### AT&T BELL LABORATORIES-HOLMDEL HOLMDEL, NEW JERSEY SEPTEMBER 26, 1989

#### PHOTOGRAPH INDEX

<u>Photo Number</u>	<u>Description</u>	Time
P-4	Looking SSE toward west side of facility.	0958
P-5	Looking W at east entrance of facility.	1010
P-6	Looking SW at main entrance of facility.	1014
P-7	Entrance of Swimming River Treatment Plant.	1035

ALL PHOTOGRAPHS TAKEN BY J. FROST.

Rev. No. 0





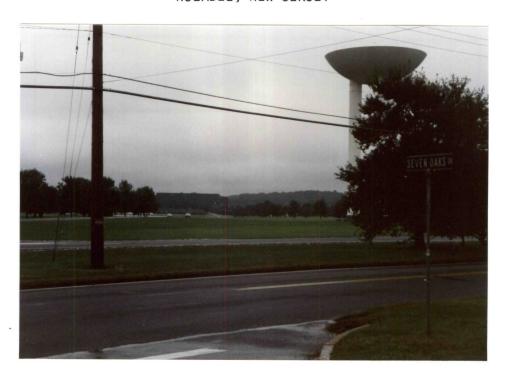
September 26,1989  $\,$  Looking SSE toward the west side of the facility. P-4 0958



September 26,1989 Looking W at east entrance of facility. P-5

Rev. No.0

## AT&T BELL LABORATORIES-HOLMDEL HOLMDEL, NEW JERSEY



P-6 September 26,1989 1014 Looking SW at the main entrance to the facility.



September 26,1989 Entrance of Swimming River Treatment Plant.

ATTACHMENT 2

#### REFERENCES

- U.S. EPA, Notification of Hazardous Waste Activity, EPA Form 8700-12 (6-80), August 18, 1980.
- U.S. EPA General Information, Consolidated Permits Program, EPA Form 3510-1 (6-80), November 19, 1980.
- 3. RCRA Generator Inspection Form, Prepared by Tom Downey of NJDEP, September 4, 1981.
- 4. NJDEP, HWDMS Master Facility Listing, March 2, 1983.
- 5. Letter from Frank Coolick, Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Bell Laboratories, August 3, 1983.
- NJDEP Inspection Form, Prepared by Kevin F. Gashlin, NJDEP, November 21, 1983.
- 7. U.S. EPA, General Information, Consolidated Permits Program, EPA Form 3510-1 (6-80), June 4, 1984.
- 8. Letter from Frank Coolick, Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Group Supervisor, Environmental Management Group, AT & T Bell Laboratories, June 26, 1984.
- 9. Letter from Edward J. Londres, Assistant Director, Engineering, NJDEP, to Paul E. Wyszkowski, Group Supervisor, Environmental Management Group, AT & T Bell Laboratories, December 6, 1985.
- 10. U.S. EPA Part B RCRA Permit Application, May 1986.
- 11. Letter from Ernest J. Kuhlwein, Acting Chief, Bureau of Hazardous Waste Engineering, to Paul E. Wyszkowski, Group Supervisor, Environmental Management Group, AT & T Bell Laboratories, September 22, 1986.
- 12. NJDEP Inspection Report, Form DWM-029 3/84, Prepared by William Zavacky, NJDEP, September 26, 1986.
- 13. Letter from Ernest J. Kuhlwein, Acting Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Manager, Environmental Management Department, AT & T Bell Laboratories, November 18, 1986.
- 14. Letter and Revised Part B RCRA Permit Application from Paul E. Wyszkowski, Manager, Environmental Management Department, AT & T Bell Laboratories, to Ernest J. Kuhlwein, NJDEP, December 3, 1986.
- 15. Letter from Ernest J. Kuhlwein, Acting Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Manager, Environmental Management Department, AT & T Bell Laboratories, December 16, 1986.
- 16. Letter from Ernest J. Kuhlwein, Acting Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Group Supervisor, Environmental Management Group, AT & T Bell Laboratories, May 22, 1987.

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- 17. Letter from Ernest J. Kuhlwein, Chief, Bureau of Hazardous Waste Engineering, NJDEP, to Paul E. Wyszkowski, Group Supervisor, Environmental Management Group, AT & T Bell Laboratories, June 8, 1988.
- 18. NJDEP Hazardous Waste Inspection Report, Form DWM-029 Revision:3 01/88, Prepared by Peter Maruhnic, NJDEP, August 18, 1988.
- 19. Letter from Paul E. Wyszkowski, Manager, Environmental Management Department, AT & T Bell Laboratories, to Peter Maruhnic, NJDEP, August 29, 1989.
- 20. Hazardous Waste Management Facility Permit, Permit No. 1318G1HPO1, NJDEP, Trenton, N.J., December 23, 1988.
- Telecon Note: Conversation between Water Clerk, Matawan Township Municipal Utilities Authority, and Jim Frost, NUS Corp., October 11, 1989.
- 22. NJDEP Duty Officer Notification Report, Form DEP-061C 9/88, Case No. 89-03-27-1027, Prepared by 24, NJDEP, March 27, 1989.
- 23. NJDEP memorandum from Todd King to file, Subject: AT & T Bell Laboratories-Holmdel-Investigation, Case No. 89-03-27-1027, March 30, 1989.
- 24. Notice of Violation from Todd King to George Bogden, Senior Plant Engineer, AT & T Bell Laboratories, Case No. 89-03-27-1027, March 30, 1989.
- 25. Letter from Paul E. Wyszkowski, Manager Environmental Management Department, AT & T Bell Laboratories, to Todd King, NJDEP, April 7, 1989.
- 26. NJDEP Hazardous Waste inspection Report, Form DWM-029, Revision: 3, 01/88, Prepared by Peter Maruhnic, NJDEP, March 31, 1989.
- 27. Notice of Violation from Peter Maurhnic, NJDEP, to Paul E. Wyszkowski, Manager, Environmental Management Department, AT & T Bell Laboratories, March 31, 1989.
- 28. Letter from Thomas Sherman, Acting Chief, Bureau of Hazardous Waste Engineering, NJDEP, to H.L. Graham, Executive Director, R & D Facilities Management Division, AT & T Bell Laboratories, April 11, 1989.
- 29. Preliminary Assessment Off-Site Reconnaissance Information Reporting Form, AT & T Bell Laboratories-Holmdel, TDD No. 02-8909-14, NUS Corp. Region 2 FIT, Edison, New Jersey, September 26, 1989.
- 30. Records of Wells and Ground-Water Quality in Monmouth County, New Jersey, New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply, Water Resources Circular 2, 1959.
- 31. Natural Features Study for Monmouth County, Monmouth County Environmental Council, April, 1975.

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- 32. Monmouth County Unique Areas Study, Monmouth County Environmental Council, December, 1978.
- 33. Federal Register, Vol. 53, No. 122, Notices, 23791, New Jersey Coastal Plain Aquifer System, New Jersey Sole Source Aquifer; Final Determination, June 24, 1988.
- 34. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.
- 35. Telecon Note: Conversation between Jim Scott, New Jersey American Water Company and Joseph Soriano, NUS Corp., September 27, 1989.
- 36. Telecon Note: Conversation between Michael Walsh, Shoreland Water Company and Joseph Soriano, NUS Corp., October 2, 1989.
- Three-Mile Vicinity Map based on U.S. Department of the Interior, Geological Survey Topographic Maps, 7.5 minute series, "Marlboro, NJ" Quadrangle, 1954, photorevised 1981; "Long Branch, NJ" Quadrangle, 1954, photorevised, 1981; "Keyport, NJ-NY" Quadrangle, 1954, photorevised, 1970, photoinspected 1977; "Sandy Hook, NJ-NY" Quadrangle, 1954, photorevised 1970.
- 38. Hagstrom Map of Monmouth County, New Jersey Hagstrom Map Company, Inc., Maspeth, New York, 1986.
- 39. U.S. Department of Interior, Fish and Wildlife Service, Atlas of National Wetlands Inventory Maps for New Jersey, 1984.
- 40. Federal Register, 50 CFR, Parts 17.11 and 17.12, Endangered and Threatened Wildlife and Plants, April 10, 1987.
- 41. Surface Water Classifications, Surface Water Quality Standards, N.J.A.C. 7: 9-4, NJDEP/Division of Water Resources, May, 1985.
- 42. General Sciences Corporation, Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.
- 43. Telecon Note: Conversation between RCRA Hotline and C. LoBue, NUS Corp., August 22, 1989.
- 44. Federal Register, Vol. 50, No. 65, Definition of Hazardous Substance, April 4, 1985.
- 45. New Jersey Department of Environmenal Protection, Bureau of Geology and Topography, Water Supply Overlay, Sheet 29, August, 1975, Updated August, 1979.

REFERENCE NO. 1

CONTINUE ON REVERSE

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EPA Form 8700-12 (6-80)

IA. DESCRIPTION									
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# XI MAP

Attached is a part of the U.S. Geological Survey, Marlboro QUAP Rangi the facility location. a survey map of the facility showi 11-68 Attached is a part of the U.S. Geological Survey, Marlboro QUAP Rangle the legal boundaries and a facility drawing showing the facility the legal boundaries and a facility drawing showing the facility show the facility. There are no wells within a 1/4" mile of the facility when Monmou toxic wastes retention tank. There are no wells within a 1/4" mile of Consolidated Water Co. in 1978 provided a hook up to their system.

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V. FACILITY DRAWING						
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VI FACILITY GEOGRAPHIC LOCATION	rage, treatment or disposal areas (see Instru	ctions for mor	e detali,	/•		
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VI . FACILITY OWNER			N_1   77			
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E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

### RCRA GENERATOR INSPECTION FORM

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	ANY ADDRESS: Crawford Corn	er Road	ルプ D011328	687		
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TITL	E: Dany Superior , Op.	en tui.	BRANCH/ORGANIZATION	:		
	k if facility is also a TSD		DATE OF INSPECTION:			
	CILITY 📈	<del>:</del>	9/4/8=1	YES	<u>00</u>	KNOW DON'I
(1)	Is there reason to believe the waste on site?	nat the facil	lity has hazardous	X	· ——	<del></del>
	a. If yes, what leads you to Check appropriate box:	believe it	is hazardous waste?			
	Company admits that its winspection.	vaste is haza	ardous during the			
	Company admitted the wast notification and/or Part	ce is hazardo A Permit App	ous in its RCRA plication.			
	// The waste material is list hazardous waste from a no					
	// The waste material is list hazardous waste from a sp					
	The material or product : discarded commercial cher					
	<pre>EPA testing has shown cha corrosivity, reactivity of or has revealed hazardous analysis report)</pre>	or extraction	procedure toxicity,			
	Company is unsure but the materials are hazardous.		n to believe that was	te		

		•	YES	<u>NO</u>	KI JOW
	b.	Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?		$\times$	
		Please explain:			
	c.	Identity the hazardous wastes that are on-site, and estimate-approximate quantities of each.  Various Lab chimical,			
		6000 gul / - ju			
	đ.	Describe the activities that result in the generation of hazardous waste.			
(2)	Is	hazardous waste stored on site?	$\nearrow$		
	a.	What is the longest period that it has been accumulated?			•
	b.	Is the date when drums were placed in storage marked on each drum?		X	
(3)		hazardous waste been shipped from this facility since ember 19, 1980?	$\times$	***	
	a.	If "yes," approximately how many shipments were made?			
(4)		roximately how many hazardous waste shipments off site have n made since November 19, 1980?			
	a.	Does it appear from the available information that there is a manifest copy available for <u>each</u> hazardous waste shipment that has been made?	X		
	b.	If "no" or "don't know," please elaborate.			

.a	YES	<u>NO</u>	KNOM DON , I
c. Does each manifest (or a representative sample) the following information?	have		
- a manifest document number	$\times$		
<ul> <li>the generator's name, mailing address, telephone number, and EPA identification number</li> </ul>	<u>×</u>		
<ul> <li>the name, and EPA identification number of eatransporter</li> </ul>	ach		
<ul> <li>the name, address and EPA identification numbers of the designated facility and an alternate facility and an alternate facility.</li> </ul>			
- a description of the wastes (DOT)	$\times$		
<ul> <li>the total quantity of each hazardous waste by of weight or volume, and the type and number tainers as loaded into or onto the transport</li> </ul>	of con-		
<ul> <li>a certification that the materials are proper classified, described, packaged, marked, and and are in proper condition for transportation regulations of the Department of Transportation the EPA</li> </ul>	labeled, on under		
Were there any hazardous wastes stored on site at the of the inspection?	ne time		<del></del>
a. If "yes," do they appear properly packaged (if tainers) or, if in tanks, are the tanks secure?	in con-	<del></del>	
b. If not properly packaged or in secure tanks, ple explain.	easc		
c. Are containers clearly marked and labelled?	1.3 , 1.3 <u> </u>	$\times$	
d. Do any containers appear to be leaking?		$\nearrow$	<del></del>
e. If "yes," approximately how many?			
5,60 gel dum of	plating but	, عولية	The same of the sa

(5)

<b>~</b> (6)		the generator submitted previous calendar year?		report		covering	 -
	a.	Haw do you know?	-4				

(7) Has the generator received signed copies (from the TSD facility) of all manifests for wastes shipped off site more than 35 days ago?

a. If "no," have Exception Reports been submitted to EPA covering these shipments?

(8) General comments.

The effective date for this requirement is March 1, 1982.



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

## RCRA TRANSPORTER INSPECTION CHECKLIST

	Crawford Come Road	001	132	<u>eff</u>	7_
Tra	nsporter Address:				
		Υe	s	No	<u>)</u>
1.	Does the transporter have an EPA I.D. number?	( <b>&gt;</b>	<del>(</del> )	(	)
2.	Is the transporter carrying hazardous waste?	(	)	(	)
3.	Does the transporter have a manifest?	(	)	(	)
4.	Does the manifest show the following information:				
	a. Name, address, I.D. of generator	(	)	(	)
	b. Name, address, I.D. of transporter	(	)	(	)
	c. Name, address, I.D. of designated facility	(	)	. (	)
	d. Name of alternative facility	(	)	. (	, )
•	e. DOT waste description	(	)	(	)
	f. Quantity of waste-volume, weight, number of containers	(	) -	(	
*	g. Signed certification statement	(	)	(	)
5.	Does the manifest information confirm vehicle load?	(	)	(	)
6.	Is the vehicle placarded for hazardous waste?	(	)	(	)
7.	General comments:  Facility in right and English last and	<i>j</i> .	±k:	time	<b>-</b>
	- does not transfer t any layardon water				
	. , , , , , , , , , , , , , , , , , , ,				

Inspected by: Thimmih John

RCRA TREATMENT, STORAGE AND DISPOS	
FOR TSD FACI	HO .
CO: IPANY NAME: Bell Telephone	EPA I.D. Number:
COMPANY ADDRESS:	NJD01132887
COMPANY CONTACT OR OFFICIAL:	OTHER ENVIRONMENTAL PERMITS HELD
	BY FACILITY: NPDES
TITLE:	// AIR
	/ OTHER
INSPECTOR'S NAME:	DATE OF INSPECTION:
	9/4/81
BRANCH/ORGANIZATION:	TIME OF DAY INSPECTION TOOK PLACE:
(1) Is there reason to believe th waste on site?	at the facility has hazardous
a. If yes, what leads you to Check appropriate box:	believe it is hazardous waste?
Company admits that its w inspection.	as <b>te</b> is hazardous during the
Company admitted the wast and/or Part A Permit Appl	e is hazardous in its RCRA notification ication.
	ted in the regulations as a inspecific source (§261.31)
<pre>// The waste material is lis as a hazardous waste from</pre>	ted in the regulations a specific source (§261.32)
The material or product i discarded commercial chem	s listed in the regulations as a ucal product (§261.33)
corrosivity, reactivity of	eracteristics of ignitability, or extraction procedure toxicity, constituents (please attach
<pre>/// Company is unsure but the materials are hazardous.</pre>	
	DON'T YES NO KNOW
b. Is there reason to believ	
hazardous wastes on-site	
flains are merely product	s or raw materials?

of the second second

**,** 

Company admits that its waste is hazardous during the inspection.
Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.
// The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)
// The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)
// The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)
<pre>EPA testing has shown characteristics of ignitability,     corrosivity, reactivity or extraction procedure toxicity,     or has revealed hazardous constituents (please attach     analysis report)</pre>
Company is unsure but there is reason to believe that waste materials are hazardous. (Explain)  DON'T  YES NO KNOW
b. Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?
Please explain:
c. Identify the hazardous wastes that are on-site, and estimate approximate quantities of each.  Various Colombiants— 2000 yellow that  5, Coyallow clause of political lines to the solution
(2) Does the facility generate hazardous waste?
(3) Does the facility transport hazardous waste? I a regular transport
(4) Does the facility treat store or dispose of hazardous waste?

#### VISUAL OBSERVATIONS

						DON'T
(5)	SITE	SE	CURITY (§265.14)	YES	<u>100</u>	KNOW
	a.	Is	there a 24-hour surveillance system?	X		<del></del>
	b.		there a suitable barrier which completely rounds the active portion of the facility?	X		
	c.	Out	e there "Danger-Unauthorized Personnel Keep " signs posted at each entrance to the cility?	×		
(6)	Are wast	the tes	ere ignitable, reactive or incompatible on site? (§265.27)	X		
	a.	If	"YES", what are the approximate quantities?			
	b.	acc	"YES", have precautions been taken to prever cidential ignition or reaction of ignitable reactive waste?	nt <u>X</u>		
	C.	Ιf	"YES", explain			
	d.		your opinion, are proper precautions taken s at these wastes do not:	50		
		-	generate extreme heat or pressure, fire or explosion, or violent reaction?	1		
		-	produce uncontrolled toxic mists, fumes, dusts, or gases in sufficent quantities to threaten human health?	$\times$		
		-	produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions?	$\overline{\times}$		
		-	damage the structural integrity of the device or facility containing the waste?	$\times$		
		-	threaten human health or the environment?	$\Rightarrow$		

Please explain your answers, and comment if necessary.

e. Are there any additional precautions which you would recommend to improve hazardous waste handling procedures at the facility?

#### SITE-SPECIFIC

Please circle all appropriate activities and answer questions on indicated pages for all activities circled. When you submit your report, include only those site-specific pages that you have used.

		•				
STORA	<u>GE</u>	TREATMENT	DISE	POSAL		
Waste Pil	e p. 9	Tank p. 8	Land	Efill	pp. 10	-11
Surface I	mpoundment p. 8	Surface Impoundment pp. 8-9	Land		tment p. 9,	10
Container	p. 7	Incineration pp. 12-13		ace I	mponng	<b> -</b>
Tank, abo	ove ground p. 8	Thermal Treatment pp. 12-13	Othe	<b></b>		
Tank, bel	ow ground p. 8	Land Treatment pp. 9-10	Octie			-
Other		Chemical, Physical p. 13 and Biological Treatment (other than in tanks, surface impound- ment or land treatment facilities) Other	YES	<u>071</u>	DON'T	1
		Oulet	•	•		
	CON	TAINERS (§265.170)				
	there any leaking ÆS", explain.	containers?				
of le	there any contain eaking? ÆS", explain.	mers which appear in danger		×		
	astes appear comp rials?	patible with container	$\times$			
4. Are a	all containers cl	losed except those in use?	$\succeq$			
or s		to be opened, handled which may rupture the them to leak?		$\times$		
		lant manager claim to inspect				

	TANKS (§265.190)	YES		DON'T
1.	Are there any leaking tanks?  If "YES", explain.		$\overline{\chi}$	
2.	Are there any tanks which appear in danger of leaking. If "YES", explain.		$\succeq$	
3.	Are wastes or treatment reagents being placed in tanks which could cause them to rupture, leak, corrode or otherwise fail? If "YES", explain.  Low Land		Ł	• .
4.	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?	<u>~</u>		
5.	Where hazardous waste is continuously fed into a tank, is the tank equipped with inflow?	<del></del> .		<del></del>
6.	Does it appear that incompatible wastes are being stored in close proximity to one another, or in the same tank?  If "YES", explain.	<del></del> .	×	
	How often does the plant manager claim to inspect container storage areas?  Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?  If "YES", explain.	×	·	
9.	What is the approximate number and size of tanks containing hazardous wastes?  SURFACE IMPOUNDMENTS (§265.220)			
1.	Is there at least 2 feet of freeboard in the impoundment?			

on all earthen dikes have a protective

Mayob a color per

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B. A. Care C.

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	( 02)	•		NI, II A	1 1
<b>\</b>	REGION: 02 STATE: NJ	NJD011328887 削学	BELL T <del>elephone</del> I	ABORATORIES IN	C HO LAS
`	EXISTANCE DATE: 6/01/71		ORD CORNER ROAD EL 201/949/4850	พม 07733	CLOS
1	COUNTY: MONMOUTH	025 DISTRICT	BASIN:	LAT	ITUDE: 402219.0
	FACILITY STATUS: 1 MODIFY/CONSTRU	CT: COMMERCIAL:	NON-REGULATED:	OWNER TYPE:	P FACILITY TYPE:
) )	MAILING ADDRESS MUHLER HANS GRP SUPV OPEN CRAWFORD CORNER ROAD HOLMDEL	BELL TELEPH CRANFORD CO NJ 07733 HOLMDEL	ADDRESS ONE LABOHATORIES RNEK ROAD 49-4850	NJ 07733	OPERATOR ADI BELL TELEPHONE CRAWFORD CORNEL HOLMDEL 201/949-4
١	INDICATORS	NOTIFICATION	DATA	PERMI	TS
1	CONFIDENTIALITY NOTIF : 0 CONFIDENTIALITY PART A : 0 NATURE BUSINESS IND : A	PERMIT S NOTIFICATION REC NOTIFICATION ACKNOWL	EIVED: 8/18/60	ТҮРЕ Ү 202	NUMBER
)	MAP STATUS IND : A DRAWING STATUS IND : A PHOTO STATUS IND : A		EIVED: 11/19/80 EDGLD: 1/15/81	и и <b>ј</b> 0 S 526	000477 2100TA 591007
`	INDIAN LAND IND: N GWNER/OPERATOR IND: Y	(2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>22</b> 0 2 <b>2 0</b>	5 5 <b></b>	371007
<b>)</b>	SIC CODES	THANSPORTATI	מט		
ì	7391 48 11	ROAD			
1			WASTE DESCRIPTI	ON	
١	WASTE CODE: DOOO ESTIMATED AMOUNT WASTE CODE: POO1 ESTIMATED AMOUNT WASTE CODE: POO2 ESTIMATED AMOUNT	T: MT	PROCESSES: PROCESSES: PROCESSES:		
1	WASTE CODE: FOO3 ESTIMATED AMOUNT WASTE CODE: FOO5 ESTIMATED AMOUNT	T: MT	PROCESSES: PROCESSES:		
1	WASTE CODE: FOOD ESTIMATED AMOUNT WASTE CODE: FOOD ESTIMATED AMOUNT WASTE CODE: POOD ESTIMATED AMOUNT	T: MT	PROCESSES: PROCESSES: PROCESSES:		
)	WAS TE CODE: PO13 ESTIMATED AMOUNT WAS TE CODE: PO18 ESTIMATED AMOUNT WAS TE CODE: PO21 ESTIMATED AMOUNT AM	r: ht	PROCESSES: PROCESSES: PROCESSES:		

LABORAR WASTEL SACTIONAL TACKING 51 NJD011328887 ਐ<sup>1</sup>⁄5 BELL TELEPHONE LABORATORIES INC HO LAST UPDATE: 2/11/63 CRAWFORD CORNER ROAD NJ 07733 HOLMDEL CLOSURE DATE: 201/949/4850 DISTRICT: BASIN: LATITUDE: 402219.0 LONGITUDE: 0741044.0 NON-REGULATED: OWNER TYPE: P FACILITY TYPE: GEN THANS TSDY COMMERCIAL: OWNER ADDRESS OPERATOR ADDRESS BELL TELEPHONE LABORATORIES INC BELL TELEPHONE LABORATORIES INC CRAWFORD CORNER ROAD CRAWFORD CORNER ROAD NJ 07733 HOLMDEL HOLMDEL NJ 07733

201/949-4850

NOTIFICATION DATA

201/949-4850

**Ú25** 

T:

J 07733

PERMITS

DESIGN CAPACITY

TYPE PERMIT STATUS: 1 NUMBER **PROCESS** AMOUNT UNIT NOTIFICATION RECEIVED: 8/18/80 NOTIFICATION ACKNOWLEDGED: 10/09/80 6000 20298 **SO2** 6000-000 501 PART A RECEIVED: 11/19/80 N NJ0000477 575 110.000 (1) PART A ACKNOWLEDGED: 1/15/81 S262100TA notes change in Burewis letter (2) PART A ACKNOWLEDGED: S12591007 June 28,1984

TRANSPORTATION

ROAD

WASTE DESCRIPTION

MT PROCESSES: MT PROCESSES: MT PROCESSES: MT PROCESSES: MT PROCESSES: MT PROCESSES: MT PROCESSES: MT PROCESSES: HT PROCESSES: MT PROCESSES: MT PROCESSES:

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AUG 5



# State of Rem Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 028, Trenton, N.J. 08625

JACK STANTON DIRECTOR

August 3, 1983

LING F PEREIRA
DEPUTY DIRECTOR

Paul E. Wyszkowski, P.E. Bell Laboratories 600 Mountain Avenue Murray Hill, NJ 07974

RE: Meeting Held on July 29, 1983

Dear Mr. Wyszkowski:

This letter will serve to confirm the conclusions arrived at during our July 29, 1983 meeting. The meeting was held to discuss what Bell could do to eliminate registering their numerous satellite facilities as generators and TSD's. It was found that most of these facilities would be able to be classified as small quantity generators, therefore they would not have to register as generators or facilities. Please keep in mind, this only holds true for those facilities that would have less than 100 kg of hazardous waste (1 kg of acutely toxic) on-site at anytime. Once the facility goes over this limit they would have ninety (90) days to remove the waste and become registered as a generator or have to become registered as a TSD facility.

In order to avoid exceeding the 100 kg limit you proposed to ship these small quantities to Bell's interim status TSD facilities for consolidation. You were advised that to be permitted to do this these facilities would need to have interim status for SO1, drum storage, since off-site containerized material would be accepted at these sites.

Currently, only the Holmdel facility has the required SO1 status. Therefore, in order to accept the small quantities at the Murray Hill and Whippany facilities revised Part A application, indicating the desired SO1 status, must be submitted to the Bureau of Hazardous Waste Engineering for approval. Also, all three facilities' Part A's should be revised to reflect the acceptance of off-site small quantities.

In regard to the transportation of the small quantities to the previously mentioned facilities you were advised that it was not necessary to manifest these shipments; nor was it necessary to use a permitted hazardous waste hauler. However, you are required to use a permitted solid waste hauler and it was suggested that you might register one of Bell's trucks to serve this purpose.

If I have misinterpreted any of our conclusions at the meeting, please advise me immediately at (609) 292-9880.

Very truly yours,

Frank Coolick, Chief Bureau of Hazardous Waste Engineering

FC:EK:ch

Marriage and speed

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Emiter

### NJDEP INSPECTION FORM

v+.

	F.4	CILITY NAME:	ells Las
, see		ADDRESS:	infol Comer Rd
TIME IN: 0900		2900NTY:	Manuel
TIME OUT:		EPA ID #:	NJ 0011328887
	DATE OF	INSPECTION:	11/17/03
PHOTOS TAKEN	ZZZZ YES	∠X NO	,
If yes, how many?	and the same of th		
SAMPLES TAKEN	YES	≥X NO	NUMBER OF SAMPLES
NUDER ID #			
MANIFESTS REVIEWED	X YES	// NO	
Number of manifests	in compliance	16	
Number of manifests (	ot in compliance		
List manif	est document numb	ers of those man	nifests not in compliance.
NJ	0135054	- NO TRA	is date rec'd
ŕ			
	01-1	T Sup.	949 - 2191

## Summary of Findings

Facility Description and Operations
High tech telecommenters industry research
and development installation. Defence work and
Consumer work primary.

			, ,	
Etching circuit boards, reage	tuse	<u>ui 1</u>	als.	
				·
				<del></del>
				•
ify the hazardous waste located on site, a ities of each. (Identify Waste Codes)	nd estir	mate th	e approx	cimate
	. /.			•
Waste oil (Non-PCO) - to	so orus			
" corrodures - 10 drum	7			
" corrodues - 10 drum	7		appro	× 100 b
' corrosives - 10 drum	is + 7	hje	ogpra	× 100 b
" corrodues - 10 drum	is + 7	hje	oppro	× 100 b
' corrosives - 10 drum	is + 7	hje	oppra	- 100 b
' corrosives - 10 drum	is + 7	hje	ogpra K.	- 100 b
' corrosives - 10 drum	is + 7	hje	ogpra K.	× 100 b
' corrosives - 10 drum	is + 7	hje	ogpra K.	× 100 B
' corrosives - 10 drum	is + 7	hje	ogsr.	× 100 6
' corrosives - 10 drum	is + 7	hje	eppra	× 100 b
' corrosives - 10 drum	is + 7	hje	eppra	× 100 b
' corrosives - 10 drum	is + 7	hje	egsro K.	× 100 b
' corrosives - 10 drum	is + 7	hje	oppro	× 100 6
' corrosives - 10 drum	is + 7	hje	oppra	× 100 6
' corrosives - 10 drum	is + 7	hje	oppro	× 100 b
' corrosives - 10 drum	is + 7	hje	ogs.	× 100 6

### GENERATOR INSPECTION CHECKLIST

		YES	<u>NO</u>	N/A
7:26-8.5	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?	$\times$		
	Is the waste hazardous?	<u>x</u>		
	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	X		*********
	Has hazardous waste been shipped off site since November 19, 1980?	<u>\( \nabla \)</u>		
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.			~ · ·
	erda.		* F 3.	O-ther
7:26-7.4(a)1	Does the generator have an EPA ID #?	$\overline{\chi}$	<del></del>	
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)			
7:26-7.4(a)4i	The generator's name, address and phone number?	4-		
7:26-7.4(a)4ii	The generator's EPA ID number?	+-		<del></del>
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	+-		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	-		
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?			
7:26-7.4(a)4vi	The TSDF's EPA ID number?	+		-
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?			

		YES	NO	N/A
7:26-7.4(a)4viii	Special handling instructions and any other information required on the form to be shipped by the generator?	$\times$		
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:	1		
7:26-7.4(a)5i	Sign the manifest certification by hand?			
7:26-7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?			
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?			-
7:26-7.4(a)5iv	Give remaining copies of the manifest form to the transporter?			
7:26-7.4(f)1	Has the generator maintained facility records since November 19, 1980? (Manifest(s), exception report(s) and waste analysis)			
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?			
7:26-7.4(h)2	If not,			
	<ol> <li>Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and</li> </ol>			
	<ol> <li>Have exception reports been submitted to the Department covering any of these ship- ments made more than 45 days ago?</li> </ol>			
	Before transporting or offering hazardous waste for transportation off site, does the generator?			
7:26-7.2(a)	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?			
7:26-7.2(b)	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?			
		4		

	123 10 177
7:26-9.3	Accumulation time
	How is waste accumulated on site?
	(Containers
	Tanks (complete HWMF checklist)
	/ / Aboveground / Below ground
	/ / Surface impoundments (complete HWMF checklist
	/ Piles (complete HWMF checklist)
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?
	Is waste accumulated for more than 90 days?
	If yes, complete HWMF checklist.
STOP HERE IF THE	HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

SHORT TERM ACCUMULATION STANDARDS (FOR GENERATORS WHO ACCUMULATE WASTE IN CONTAINERS FOR 90 DAYS OR LESS)

		YES	<u>NO</u> /	N/A
7:26-9.4	Containers			
	What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty five gallon drums of waste acetone).	• /	/	
7:26 <b>-</b> 9.4(d)3	Do the containers appear to be in good condition not in danger of leaking?	1,		•
	If no, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
7:26-9.4(d)4i	Are all containers securely closed except those in use?			
7:26 <b>-</b> 9.4(d)4iii	Do containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing or leaking?			
7:26-9.4(d)4iv	Are containerized hazardous waste segregated in storage by waste type?			
7:26-9.4(d)4v	Is every container arranged so that its identification label is visible?		<del></del>	
7:26-9.4(d)5	Is the storage area inspected at least daily?			
7:26 <b>-</b> 9.4(d)6	Are containers holding ignitible and reactive wastes located at least 50 feet (15 meters) from the facility's property line?			***********
7:26-11.2	Tanks			
	What are the approximate number and size of tanks containing hazardous waste?			
	Identify the waste treated/stored in each tank.			

			YES	<u>NO</u>	• • •
*Notices		General Operating Requirements			
	7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?			
America		If no, please explain.	•		
		Are there leaking tanks?			
Andrews .	7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger of ruptures, corrosion, leaks or other failures?			
Congress of the Conference of	7:26-11.2(3)	Do uncovered tanks have at/least 2 feet of			
		freebo d or an adequate containment structure?			
sa-inu	7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?			
	7:26 <b>-</b> 11.2(c)	Inspections			
_	7.20-11.2(0)	Is the tank(s) inspected each operating day for:			
`w~		<ol> <li>Discharge control equipment</li> <li>Monitoring equipment</li> </ol>			
		<ol> <li>Level of waste in tank</li> <li>Construction of materials of the tank</li> <li>Are the tanks and surrounding areas</li> </ol>			
		<pre>(e.g., dike) inspected weekly for leaks, corrosion or other failures?</pre>			<del></del>
		Are there underground tanks?		<del></del>	
		If yes, how many and can they be entered for inspection?			
<del></del>	7?26-11.2(e)	Are ignitible or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			
_	(	If no, please explain.			

			YES	<u>NO</u>	N/A
· White date	7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?			
	7:26-9.4(g)	Personnel training			
		Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?			
_	7:26 <b>-</b> 9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are			
N Managana		employed?			
	7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?		<del></del>	
**************************************		Is there written documentation of the following:			***************************************
·	7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?			
Name	7:26-9.4(g)6ii	A written job description for each position related to Mazardous waste management?			
_	7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?			
	7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?			
	7:26-9.4(g)7	Are training records kept on all employees for at least 3 years?			
* reconstruint	7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities			
		to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?			
	7:26-9.6	Preparedness and prevention			
		Does the facility comply with preparedness and prevention requirements including maintaining:			

		YES	<u>NO</u>	N/A
7:26-9.6(b)1 An i	nternal communications or alarm system?			
7:26-9.6(b)2 A te assi	lephone or other device to summon emergency stance from local authorities?			
	able fire equipment, spill control equipment, decontamination equipment?			
wate or a	r at adequate volume and pressure to supply r hose streams, or foam producing equipment, utomatic sprinklers, or water spray ems?			
7:26-9.6(c) Is e	quipment tested and maintained?			
or a	here immediate access to communications larm systems during handling of hazard-waste?			
move equi	uate aisle space to allow unobstructed ment of personnel fire protection pment, spill control equipment and intamination equipment?			
If n	o, please explain.			
requ some	our opinion, do the types of waste on site ire all of the above procedures, or are not required?			
	the facility made the following arrangements, appropriate for the type of waste handled on :			
/ emer	liarize police, fire departments and gency response teams with the layout of facility and hazardous waste handled?			
migh agre to a agre	re more than one police and fire department it respond to an emergency, is there an ement designating primary emergency authority a specific police or fire department, and ements with any others to provide support to primary emergency authority?			No.

		YES	<u>NO</u>	<u>1/A</u>
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?			
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?			
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?			
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?			
7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?			
7:26-9.7(c)	Does the contingency plan describe the actions facility/personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?			
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	-		
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?			
7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?			

		YES	<u>NO</u>	N/A
7:26 <b>-</b> 9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.			
7:26 <b>-</b> 9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept upto-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?			
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evaucation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evaucation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?		-	
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and			
	2. Has the contingency plan been submitted to local authorities (police fire depart- ments, emergency response teams)?	Name of the Associated Associated Associated Associated Associated Associated Associated Associated Associated		***************************************

## TRANSFORTER INSPECTION

YES NO YES

Does the transporter carry hazardous waste? If yes, explain. NORIS THERE TRANSPORTER LICENSE HAS NOT BEEN USED puy intent TO USE IN FUTURE. 7:26-7.5(c)1 Has the transporter obtained a hazardous waste collector/hauler license from the NJDEP? License =: 7:26-7.5[d 1 Does the transporter have an EPA identification number? 7:26-3.4(h) Do the vehicle(s) have the NJSWA registration number in letters and numbers at least three 3: inches in height? 7:26-3.4(h) Is the capacity of the vehicle marked on both sides of the vehicle in letters and numbers at least three '7' inches in height? 7:15-3.4(h) Is the current MUSWA registration certificate in the vehicle? loes the license plate number and registration 7:26-3.0 5 jumper on the centificate correspond to the Lehicle's license plate number and the registration number displayed on the vehicle? 7:26-7.5:d Does the transporter have in each registered vehicle a current list of all federal and state agencies to be notified in the event of a pigemance of hozandous waste duning trunspuhtation? How main, verticles were inspected? 7:25-7.5/d)12 Hale the orivers received any instruction om tr<u>aining</u> to do with the randling of nézandous waste? 7:26-7.5(d)15 As the transporter equipped with emergency. equipment in conformance with suppart H of ag CFR 393?

		ν <u>ες</u>	110	1./-
	Has the transporter ever had an <u>unauthorized</u> , discharge of hazardous waste during trans- portation?			MI GLOSTI
	If yes, did the transporter:			
7:26-7.8 <sub>k</sub> f)31	Give notice, if required by 49 CFP 171.15 to the National Response Center?	-		
7:26-7.5(f)3ii	Report in writing as required by 49 CFR 171.16 to the Director, Office of Hazardous Materials, Transportation Bureau, Department of Transportation, Washington, DC 20590?	• Harrison Blanc		
7:26-7.5(f)3iii	Contact the Department at 609-292-5560 or 609-292-7172?			
	MANIFESTS			
7:26-7.5(0,5	Does the transporter have a manifest form to accompany the waste shipment?	~ ===		
	Manifest document number:			
7:26-7.0;8 1	If the snipment originated from a sine in New Jersey and is destined for unother inte in New Jersey, is the manifest form one supplied by the NJDEP?	-		
7:26-7.0%a%0	If the shipment originated from a site in another state and is destined for a TSOF in New Jersey, in the manifest form are supt of the NJSSS or and appended for a entire New Jersey, by the Tépantment?	J 		
7:26-7:3 a 3	If the suipment triginated from a site in New Jersey and is destined for a ISDE or another state, is the marifest form one supplied by the NULEP or the approach for use by the Department:			
7:16-Tue d 11	If the hauder was unable to deliver a manifested load to the designated facility, did they contact the generator and gain further instructions from them?			
	If yes, cite generator name and manifest number involved.			

## HAZARDOUS WASTE FACILITY STANDARDS

e nama di mala			YES	<u>```</u>	<u> 474</u>
	7:26-9.4.5)	Waste Analysis			
	7:26-9.4(b)1i	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis most contain all the information necessary for proper treatment, storage or disposal of the waste.)	<u>X</u>		
	7:26-9.4(b)liii	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one: Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous		×	
_	7:26-9.4(b)2	Is there a written waste analysis plan at the facility?  Does it contain:	X		
	7:26-9.4 <sub>(2)</sub> i	Farameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters?	X		
	7:26-9.475 211	The <u>test methods</u> which will be used to test for these parameters?	<u>×</u>		<del>-</del>
	7:26-9.4(b)2iii	The <u>sampling method which</u> will be used to obtain a representative sample of the waste to be analyzed?	×	- <u>-</u>	
waadadad	7:26-9.4(6/21/	The frequence with which the initial analysis of the waste will be reviewed on repeated to ensure that the analysis is accurate and up-to-date?	<u>X</u>		
<b>Name</b>	7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?			X
	7:26-9.4(b)2vii	Procedures which will be used to identify changes in waste stream characteristics?	X	-	
brauserid	7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?	<del></del> .	-	
		If yes, when was the plan submitted?			

		YES	110	<del>- 'É</del>
	Does hazardous waste come to this facility from an outside source? (e.g., another generator)		X	
	If yes, list the name(s) of generators. $oldsymbol{\iota}$			
_	n J. B			
7:26-9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?			$\lambda$
<del></del>	Does the plan describe:			
— 7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?			\^ 
7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?			
7:7:26-9.4(h)	Security			
	Does the facility nave:			
7:26-9.4(h)1i —	A <u>24 hour surveillance system which continuously</u> monitors and controls entry onto the active portion of the facility?	<u>×</u>	<b>@</b>	<del></del>
7:26-9.4(h)1ii	An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances			
	to the active portion of the facility?	<u>X</u>		
7:26-9.4(h)3 —	Are there "Danger-, nauthorized Personnel Keep Out" signs posted at each entrance to the facility?	X		
_	If <u>no</u> , explain w <u>nat measures</u> are taken for security.			

			YES	<u> 110 </u>	<u> 1778</u>
-	7:26-9.4(f)	General Inspection Pequirements			
—	7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:	_		
	7:26-9.4(f)li	Discharge of hazardous waste constituents to the environment?	$\times$		
	7:26-9.4(f)1ii	A threat to human health?	X		
	7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?			
	7:26-9.4(f)3i	Did the owner or operator submit the written inspection schedule to the department?			
**************************************		If yes, when was it submitted?			
	7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?	<u>×</u>		
	7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	×		
	7:26-9.4(f,3v	Does the schedule include the frequency of inspection, based upon the nate of possible deterioration of the equipment and the probability of an environmental, or number health incident if the deterioration or malfunctions or any operator error goes	\ <u></u>		
-21107		undetected between inspections?	<u>X</u>		
	7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?	undet	ا م سينسسه	whend.
	7:26-9.4(f)6	Does the owner/operator record inspections in a log?	<u> </u>	·- <del>-</del>	
-		Are these records kept for at least three (3) years from the date of inspection?	之		

-

			YES	<u>%0</u>	:; -
		Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	×		
	7:26-9.4(g)	Personnel training			
-		Have <u>facility personnel</u> successfully completed a program of <u>classroom instruction or on-the-jotraining</u> within 6 months of having been employed?	<u>×</u>		
	7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation)			
		relevant to the positions in which they are employed?	×		
	7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	$\nearrow$		~
		Is there written documentation of the following:	×		
Activities	7:26-9.4(g)5i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	<u>×</u>	•••	
	7:26~9.4(g)5ii	A written job description for each position related to hazardous waste management?	4-		
_	7:26-9.4(g)5iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazard-ous waste management?	X		
	7:26-9.4(g:5iv	Documentation of actual training or experience received by personnel?	Wex	A Company	
e-prode-	7:26-9.4(g)7	Are training records kept on all employees for at least three (3) years?	<u>X</u>		
	7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency			
		plan and emergency procedures development pursuant to NJAC 7:26-9.7?  Chills held annually		X	

		,			
	7:26-9.6	Preparedness and prevention	YES	<u>::0</u>	<u></u>
-		Does the facility comply with preparedness and prevention requirements including maintaining:			
	7:26-9.6(b)1	An internal communications or alarm system?		X	
	7:26-9.6(b)2	A <u>telephone</u> or other device to summon emergency assistance from local authorities?	A	X	
	7:26-9.6(b)3	Portable fire equipment, spill control equipmen and decontamination equipment?	t , <u>//</u> /X		
	7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	undete	· Warnen	
	7:26-9.5(c)	Is equipment tested and maintained?	$\angle$		
	7:26-9.6(d)1	Is there immediate access to <u>communications</u> or alarm systems during nandling of hazard- ous waste?		X	
-	7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	X		
vande		If no, please explain.			
		In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<del></del>		
Alderson		Explain. Probably required.			
	7:26-9.6(f)	Has the facility made the following arrangement as appropriate for type of waste handled on site?			
	7:26-9.6(f)1	Familiarize police, fire departments and			
		emergency response teams with the layout of the facility and hazardous waste handled?	之		<del></del>

			YES	1.0	<u>1774</u>
	7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authorito a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?			X
*NAMES AND THE PARTY OF THE PAR	7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	X		
	7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires.			
параме	7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?	<b></b>		
	7:26-9.7	Contingency plan and emergency procedures			
	7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-			
****		sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?	$\overline{\times}$		
• 74- <b>-100</b>	7?26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or nazardous waste constituents which could threaten human			\ <i>/</i>
		health or the environment?	-		<u>×</u>
- CALLEGE OF THE STREET	7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface			
		water at the facility?	<u>X</u> .		
essente.	7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	X		
_		If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	<u> </u>		
****					

	-7 <i>-</i>		
7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?		X part to a surely
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.	<u>X</u>	
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	e <u> </u>	<u>.</u>
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	<u>X</u>	
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:	17	
	<ol> <li>Maintained at the facility; and</li> </ol>	X	
	2. Has the contingency plan been submitted to local authorities (police, fire depart- ments, emergency response teams)?	X	
7:26-9.8	Closure plan		
7:26-9.8(c)	Does the facility have a written closure plan?	N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/	
	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	$\times$	
	If yes, does the plan include:		

			YES	10	<u>1./4</u>
	7:26-9.8(e)1i	4 description of how and when the facility will be partially closed (if applicable) and ultimately closed?	×		
	7:26-9.8(e)1ii	The maximum extent of the operation which will be open—during the life of the facility?	X		
	7:26-9.8(e)2	An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	X		
	7:26-9.8(e)3	A description of the steps needed to decontaminate facility equipment during closure?	$\times$		
	7:26-9.S(e)4	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?		×	
		Post Closure Plan			
*Market	7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility?		<u>X</u>	
		If yes, does the plan:			
	7:26-9.9(i)	Identify the activities which will be carried on after closure and the frequency of these activities?	-		X
	7:26-9.9(i)1	Include a description of the planned ground- water monitoring activities and frequencies at which they will be performed?			
	7:26-9.9(i)2	Include a description of the planned main- tenance activities, and frequency at which they will be performed, to insure the following	:		
-	7:26-9.9(i)2i	The integrity of the cap and final cover or other containment structures where applicable?		40.000	
	7:26-9.9(i)2ii	Describe the function of the facility monitoring equipment?	-		
· · · · · · · · · · · · · · · · · · ·	7:26-9.9(i)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?			
		Does the owner/operator have a written estimate of the cost of post-closure for the facility?			
-		If yes, what is it?			

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

Treatment Sisposal

Container - pg. 9 Tank - pg. 12 Landfill - pg. 18

Tank, above ground - pg. 12 Surface Impoundments - pg. 15

(Tank) below ground - pg. 12 Incineration - pg. 20 Surface Impoundments - pg. 15

Surface Impoundments - pg. 15 Thermal Treatment - pg. 23 Other

Waste Piles - pg. 17

Chemical, Physical and Ciological Treatment - pg. 25

Other

YES NO TA

## 7:26-9.4(d) <u>Containers</u>

What type of containers are used for storage? Describe the size, type, quantity and nature of wastes (e.g., 12 fifty-five gallon drums of waste acetone)

SS gallowoil, corrossives

7:26-10.4(b) Is there a containment system for spills, leaks and precipitation?

X \_ \_

Is yes, describe the containment system.

Consists of bevelod which there or server.

a 6" concrete bevelod in his to the or server.

bern to the diameter of server.

7:26-9.4(d)1i

Do the containers appear to be of sturdy leak-proof construction of adequate wall thickness, weld, hinge and seam strength, and of sufficient material strength to withstand side and bottom shock, while filled, without impairment of the container's ability to contain hazardous waste?

× \_\_\_\_

If no, explain.

** Marie			YES	<u>40</u>	<u>177</u>
onene.	7:26-9.4(a)1ii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	X	×	
•••••		Some the sound power.			
	7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	<u>,</u> X		
- Name	7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Se detailed and specific.	NA		
- The state of the	7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?  If no, explain.	quastru —	iste di	4 d his (above)
		i no, explain.			
	7:26-9.4(d)4iii	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	<u> </u>		
Margar.		If no, explain.			
	7:26-9.4(d)iv	Are containerized hazardous wastes segregated in storage by waste type?	$\angle$		
	7:26-9.4(d)v	Are containerized hazardous wastes arranged so that their identification label is visible?			X
Norm	7:26-9.4(d)3	Are hazardous wastes stored in containers made of compatible materials?	X	•	

			YES	110_	<u> 11/A</u>
* manus	7:26-9.4(d)5	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	X		
* van	7:26-9.4(c)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	X		
	7:26-9.4(d)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		$\angle$	
channer		If yes, explain.	•		
* Appellan					
National Association (Inc.)	7:26-9.4,d)7ii	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?		$\times$	
		If yes, explain.			
An agenty made					
	7:26-9.4(d)iii	Are containers holding hazardous waste that are incompatible with any waste or other		\	
G-Times		materials stored nearby in other containers, open tanks, or surface impoundments separated	, (	Varance y	
in regional		from the other materials or protected from them by means of a dike, berm, wall or other device?	1 No.	<b>0</b>	
-سنين	7:26-9.4(e)li	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	×		<u>₩</u>
Paper		If no, explain.			
~~	7:26-9.4(e)lii	Does the owner/operator confine smoking and ope flames to specially designated locations when igritable or reactive wastes are being handled?			<u>X</u>
discontinue.		If no, explain.			•

			YES	<u>;;0</u>	
	7:36-9.4(e)1iii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a nazard from ignitable or reactive waste?	<u>X</u> .		
NOTE OF STREET		## the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:	: المار	مسموه كمرا أهم	الر
	7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	Complete &	ref Jeterna	
	7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	, 		
Numan	7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	<u> </u>		
	7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	-		
N. Organia	7:26-9.4(e)2v	Threaten human health or the environment?		$\bigvee$	
	7:26-11.2	<u>Tanks</u>			
6 container		What are the approximate number and size of tanks containing hazardous waste?	y tox "	, <b>y</b> .	
		Identify the waste treated/stored in each tank.	701		
*Non-ten		General Operating Requirements			
	7:26-11.2(a;2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?	$\overline{\times}$		
~~~		If no. please explain.			
******				/	
		Are there leaking tanks?		$\overline{\chi}$	

			YES	110	<u> </u>
	7:36-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger of ruptures corrosion, leaks or other failures?	<u>×</u>		
	7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?	X		
_	7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?	拟		<u>×</u> .
	7:26-11.2(c;	Inspections			
**********		Is the tank(s) inspected each operating day for:			
		<ol> <li>Discharge control equipment</li> <li>Monitoring equipment</li> <li>Level of waste in tank</li> <li>Construction of materials of the tank</li> <li>Are the tanks and surrounding areas         (e.g., dike) inspected weekly for</li> </ol>	X + + + + + + + + + + + + + + + + + + +		
		leaks, corrosion or other failures?			
		Are there underground tanks?			
		If yes, how many and can they be entered for inspection? One - VanIted. Access to all parts of	tour.		
Policidado	7:26-11.3(e)	Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			X
		If no. please explain.			
tomore					
outename.	7:05-11:0 f.	Does it appear that incompatible wastes are being stored separate from each other?	-		<u>×</u>
ingraem.	7:14A-6	Groundwater monitoring			
		(Applies only to: surface impoundments, land-fills, land disposal facilities.)			X

YES NO Does the owner/operator have a groundwater/ 7:144-6.2 monitoring plan approved by the Departmen $\rlap/ x$ and capable of determining the facility's impact on the qaulity of groundwater? If no, please explain. How many monitoring wells has the facility installed? What is the depth to groundwater? How many deep monitoring wells are on site? (Indicate depth of monitoring wells.) How many shallow monitoring wells are on site? Clasicate depth of monitoring wells... 7:144-6.34-4 Is the anoundwater/monitoring system capable of yfeld to proundwater samples for unalysis? If the lightest explaine Fre monitoring/wells installed hydraulically 7:14A-6.3.a:1 upgradient? If yes, specify how many and the depth of each.

-	/	YES	1:0	<u> 1774</u>
7:14A-6.3(a)2	How many monitoring wells are installed nydraulically down gradient?			
-	If yes, specify how many and the depth of each.			
-				
- 7:14A-6.4(a)	Does the owner/operator have a groundwater sampling and analysis plan?			
-	If no, please explain.			
-				
7:14A-6.4(a)	Does the plan include procedures and techniques for:			
-	<ol> <li>Sample collection</li> <li>Cample preservation and shipment</li> <li>Analytical procedures</li> <li>Chain of custody</li> </ol>			
7:06-11.3	<u> Sunface Impoundments</u>			
	Describe the design and operating features of the surface impoyndment to prevent ground-water contamination; e.g., liner leachate collection systems.			
-				
•				
	Gruentre ropprováriabe sázentí purfore impound- nert no combin jaroupác teet . Riesse specific tre tyrologi wárte sporen am trested.			
7:26-11.3.a)	is there at least 2 feet of freedoard in the impoundment:			

-					
			<u>yés</u>	<u>NO</u>	<u>:                                    </u>
	7:26-11.3(b)	Do all earthen dikes have a protective cover to preserve their structural integrity?			
		If yes, please specify the type of covering.			
***************************************					
Augriculate	7:26-9.4(b)1	Does the owner/operator have a detailed chemical and physical analysis of a representative sample of the waste in the impoundment?			
/rel marrierana	7:26-9.4(c)2	Does the owner/operator place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility?			
	7:26-11.3(d)	Does the owner or operator inspect:			
	·	. ,			
-	7:26-11.3 <sub>\</sub> a\1	The freeboard level at least once each operating day to ensure compliance with subsection $11.3(a)$ ?			
ng abandon	7:26-11.3(d 2	The curface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks; deterioration or failures in the impoundment?			
*******	7:26-11.3(f)	Is ignitable on reactive waste placed in the sunface impoundment?			
Standard	7:26-11.3 f)1	If yes, is the waste tweated, rendered, or mixed before or immediately after placement in the impoundment:			
American	7:26-11.5,f 15	Does the resulting waste, mixture, or dissolution of material no longer meet the definition of ignitable on reactive waste?		addigina a kan	
	7:26-11.3(f)1ii	Is the waste theafeld, hersened or mixed octhat it does not∜			
	7:26-9.4(e)2i	Generate extreme neat or pressure, fire or explosion, or violent reaction?			
Assessed	7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fames, dusts, of gases in sufficient quantities to threaten human health?			
19 Mariana	7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion?		-	

		/			
			<u> </u>	::0	<u> 117A</u>
	7:26-9.4[e)2iv	Damage the structural integrity of the device or facility containing the waste?			
	7:26-9.4(e)2v	Threaten human health or the environment?			
	7:26-11.3(f)2	Is the surface impoundment used soley for emergencies?			
	7:26-11.3(g)	Are incompatible wastes, or incompatible wastes and materials placed in the same surface impoundment?		<del></del>	
		If yes, is the waste managed so that it does not:			
	7:26-9.4(e)2i	Generate extreme heat or/pressure, fire or explosion, or violent reaction?	-	* risilita sasiliti sas	
****	7:26-9.4 <sub>(e)</sub> 2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health $\gamma$			
	7:26-9.4 e.2iii	Produce uncontrolled/flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?			
	7:26-9.4(e)2iv	Damage the structural integrity of the device on facility containing the waste?			
	7:26-9.4(e)2v	Threaten human health or the environment?		madeus delle	
		Waste Piles /			
n, a commun		How many waste/piles are on-site and approximately how large are they? (Please indicate size and height and types of wastes in piles.)			
numeric .					
		Is the waste pile protected from wind enusians			
		a) Does it appear to need such protection?			
		b) Explain what type of protection does exis	it.		
******	7:26-9.3(a:Ei	Is the waste pile larger than 200 cubic yards?			

			YES	<u>40</u>	://_
	7:26-9.3(a)5ii	Is the pile placed on an impermeable/base that is compatible with the waste?	*******		
		If no, explain.			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
مسيد	7:36-9.3(a)5iii	Is run-on diverted away from the pile?			
	7:26-9.3(a)5iv	Is leachate and run-off from the pile collected and managed as a hazardous waste?			
	7:26-11.4	Landfills			
_		identify the types of waste and size of the land fill.	<b>i -</b>		
		General Operating Requirements			
	7:26-11.4(a)1	Is run-on diverged away from all portions of the landfill?	- <del></del> -	a.	
	7:26-11.4(a)2	Is run-off from active portions of the land- fill collected?		-	
-	7:26-11.4 a:3	Is waste whych is subject to wind dispersal controlled?	·····		s 44
Distribute.		Flease expdain now.			
committee					
-	7:26-11.4 a 4	Diet waste disposal or the disposal operation occur within 200 feet (60.6 meters of the property boundary?			
	7:26-11.4(a)6	Are untreated, ignitable, or reactive wastes placed in the landfill?			
*Apput Minis		If yes, explain.			

		1	YES	<u>NO</u>	<u>N/A</u>
-	7:26-11.4(a)7	Are incompatible wastes, or incompatible wastes and materials placed in the same hazardous waste landfill cell?			
		If yes, explain.			
Promoter					
	7:26-11.4[a]8	Are bulk or non-containerized liquid waste or waste containing free liquids placed in a hazardous waste landfill?		Alejan depa	
		If yes:			
A	7:25-11.4 <sub>\ay8</sub> i	Does the hazardous waste landfill have a liner which is chemically and physically resistant to the added liquid and a functioning leachate collection and removal system with a capacity sufficient to remove all leachate produced?			
\ <u>\</u>	7:26-11.4(a)8ii	Before disposal, is the liquid waste or waste containing free liquids treated or stabilized. chemically or physically, so that free liquids are no longer present?			
_	7:26-11.4 <sub>\(\a,\9\)</sub>	Are containers holding liquid waste or waste containing free/liquids placed in a hazardous waste landfill?			
randona		If yes:			
	7:26-11.4 a 34	in the container designed to hold liquids or free liquids for a use other than storage, such as a pattery?	-	****	
t-aran-	7:26-11.4(a.9ii	Is the container very small, such as an ampule:	-		
*Prodes	7:06-11.4 s 16	are empty containers crushed flat, shreaded, or cimilarly reduced in volume before it is buried beneath the surface of a hazardous waste landfill?			
a talenta	7:26-11.4(a:11	Does the owner or operator of a hazardous waste landfill continue to dispose of hazardous wastes subsequent to the detection of any liquid, in the secondary collection tystem?			
Address	7:26-11.4 <sub>1</sub> t'	Does the owner or operator of a hazardous waste landfill maintain an operating record required in N.J.A.C. 7:26-9.4'i'?			

			YES	::0	1/2
7:26-11.4 <sub>(b,1</sub>	Does the owner/operator maintain a exact location and dimensions, incof each cell with respect to permansurveyed bench marks?	luding depth			
7:26-11.4(b)2	The contents of each cell and/the location of each hazardous waste teach cell?				
	Are containers holding liquid wast containing free liquids placed in fill?				
	Please describe the types and contisuen containers placed in the land	ents of fill.			
<b></b>	Are empty containers placed in the crushed flat, shredded or similarl in volume before they are buried?	landfill y reduced			
·	Are small containers of hazardous overpacked drums placed in the lan				
	If yes, please describe precaution to prevent the release of the wast				
7:26-11.5	Incinenator				
	What type of incinerator is at the waterwall incinerator, border, fluetc.				
pww.					

List the types and quantities of hazardous waste incinerated.

******			YES	<u>*:0</u>	·. / i
		Is the residue from the incinerator a hazard- ous waste?	,		
		What types of air pollution control devices (if any) are installed in the incinerator unit?			
- 20.000		Is energy recovered from the process?  If yes, describe.			
*****					
		What is the destruction and removal efficiency for the organic hazardous waste constituents?			
	7:26-11.5(b)1	Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:			
	7:26-11.5(b)1i	Heating value of the waste?			
	7:26-11.5(b)1ii	Halogen and sulfur content?			
	7:26-11.5(b)1iii	Concentrations of lead and mencuny?		n sain nameli	
	7:26-11.5(2)	If no to any of the above questions, is there justification and documentation?		<del></del>	
-defineda		If operating, does it appear the incinerator is operating at stead; state for conditions of operation, including temperature and air flow?			
		Monitoring and Inspection			
-moreold	7:26-11.5(c)1	Are existing instruments relating to combustion and emission controls monitored every 15 minutes?			
		/ If no. explain.			

			YES	NO	N/A
	7:25-11.5(c)1	Does the incinerator have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Sircle missing instruments.)			
-		If no, explain.			
	7:26-11.5(c)2	Is the stack plume observed visually at least hourly for opacity and color?			
-	7:26-11.5(c)3	Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
_		If yes, describe.			
	7:26-11.5(c)3	Are all emergency snutdown controls and system alarms checked to assure proper operation?			
		Is there any reason to believe the incinerator is being operated improperly? i.e., steady state conditions are not maintained.			
		If yes, explain.			
et de colon					
*******	7:26-11.5(c)3	Is the incinerator inspected daily?			Angel V Section V
****	7:26-11.5(e)	Is there open burning of hazandous waste?		<del></del> -	
		If yes, what is being burned? Only burning or detonation of explosives is permitted.			
-					
		If anon humbing an deteration of avalorities is			
		If open burning or detonation of explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?	ê		

YES NO Are containers holding liquid waste, or waste containing free liquids placed in the landfill? Please describe the types and contents of such containers placed in the landfill. Are empty containers placed in the landfill crushed flat, snredded or similarly reduced in volume before they are buried? Are small containers of hazardous waste in overpacked drums placed in the landfill? If yes, please describe precautions taken to prevent the release of the waste. Thermal Treatment What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.) List the/types and quantities of hazardous waste thermally treated. Is the residue from the thermal treatment unit a hazardous waste? What types of air pollution control devices (i ≠ any) are installed in the thermal treatmeht unit?

7:26-11.6

			YES	<u>NO</u>	1./A
		Is energy recovered from the process?			
- <b>-</b>		If yes, describe.			
		What is the destruction and removal efficiency for the organic hazardous waste constituents?			
	7:26-11.6(b)1	Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:			
	7:26-11.6(b)1i	Heating value of the waste?			
	7:26-11.6(b)1ii	Halogen and sulfur content?			
	7:26-11.6(b)1iii	Concentrations of lead and mercury?			
	7:26-11.6(2)	If no to any of the above questions, is there justification and documentation?			
		If operating, does it appear the thermal treatment unit is operating at steady state for conditions of operation, including temperature and air flow?			
		Monitoring and Inspection			
		Are existing instruments relating to combustion and emission controls monitored every 15 minutes?			
		If no, explain.			
	7:26-11.6(c)1	Does the thermal treatment have all the following instruments for measuring: wastefeed auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH?  Direle/miscing instruments.;			
		If no./explain.			

			YES	NO	<u> 21/4</u>
	7:26-11.6(c)2	Is the stack plume observed visually at least hourly for opacity and color?			
	7:26-11.6(c)3	Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
		If yes, describe.			
	7:26-11.6(c)3	Are all emergency shutdown controls and system alarms checked to assure proper operation?			
		Is there any reason to believe the thermal treatment unit is being operated improperly? i.e., steady state conditions are not maintained.			
		If yes, explain.		•	
_					
	7:26-11.6(c)3	Is the thermal treatment inspected daily?			
	7:26-11.6(e)	Is there open burning of hazardous waste?			
		If yes, what is being burned? (Only burning or detonation of explosives is permitted.)			
_		If open burning or detonation of explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?			
_					
	7:26-11.	Chemical, Physical and Biological Treatment			

Other than in tanks, surface impoundments or plant treatment facilities;

I the appear is a plant treatment faith.

dender le			YEC	<u></u> .	·
		Describe the treatment system at this facility and the types of wastes treated.			
	7:26-11.7(a)2	Does the treatment process system show any signs of ruptures, leaks or corrosion?			
		If yes, describe.			
	7:26-11.7 a;3	Is there a means to stop the inflow of contin- uously-fed hazardous wastes?	<del></del>		
*hazarani		Inspections			
32 stante	7:36-11.7(c)1	Is the discharge control safety equipment (e.g., waste feed cut-off systems, by-bass systems, drainage systems and bressure relief systems) in good working order?			
*sime**	7:26-11,7 c,1	Are they inspected at least once each operation day?			
Son was	7:26-11.7(c)2	Does the data gathered from the monitoring equipment (e.g., pressure and temperature gauges) show treatment process is operating according to design?			
browner	7:26-11.7 c 2	is data gathered at least once each operating day?	annug vilikir u		
engraph	7:26-11.7 <sub>1</sub> c 3	Are construction materials of the treatment process inspected at least weekly in detect corrosion on leaking of ficturer and seams?			
****	7:26-11.7 :::4	-ne the discharge confinement structures e.g., dikes) immediately surrounding the treatment unit inspected at least weekly to detect			
*****		erosion or obvious signs of leakage e.g., wet spots or dead vegetation.			
	7:26-11.7[e/1	Are ignitable or reactive waste fed into the waste treatment system treated or protected from any material or conditions which may			
******		If yes, explain how.			
Venez desa					

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<u>ves 40 174</u> 7:26-11.75 Are the incompatible wastes placed in the same treatment process? If yes, please explain.

REFERENCE NO. 7

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1/3/3//5/	PA I.D. FACILIMAILIN FACIL LOCAT	ITY		EASE PL	ACEL		HIS SPACE	If a preprinted label has it in the designated space ation carefully; if any of through it and enter the appropriate fill—in area to the preprinted data to ableft of the label space that should appear), ples proper fill—in area(s) be complete and correct, yo complete and correct, yo items to complete has been the instructions for detions and for the legal which this data is collected.	been ge, Review it is in a correction, in a correction, in a correction in a correction in a correction in a correction authority.	provident data data data data data data data da	e informact, crosses in the crosses of the crosses of the complete of the complete of the complete of the complete of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the crosses of the cros	
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		# CUPIC	AUESTIONS.			ATTACHE	1	SPECIFIC	QUESTIONS	748		ATTACH
		results in a dies	icly owned treatm heren to waters o		. X		<del></del>	include a concentrated	leither existing or proposed seimel feeding operation of on facility which results in a U.S.7 (FORM 28)		X	
	10 wets	ers of the U.S.	currently results in		Х		] 5.	in A or B above) which	y lother then those described y will result in a distherge to	, L	X	
E.	Does or	r will this facili wester (FOR	ty treet, store, or	dispose of	X		F.	municipal effluent below	et at this facility industrial or we the lowermost stratum con arter mile of the well bore		X	17
	water or in conniction duction oil or n	r other fluids we ection with conv , inject fluids u	ct at this facility an nich are brought to entional oil or net, sect for enhanced is ect fluids for stora	the surface recovery of	X		н.	Do you or will you injected process such as n process, solution mining	drinking weter? (FORM 4) or at this facility fluids for spe nining of sulfur by the Frasch g of minerals, in situ combus covery of geothermal energy	;	X	12
1.	is this is one of struction per year Clean A	facility a propos the 25 industri he and which w ir of any air p	ed stationary sour of categories listed will potentially emi ollutant regulated y affect or be lot	t in the in- it 100 tons under the	X		T	NOT one of the 28 ind instructions and which the per year of any air pollu-	ed asstionary source which is lustrial categories listed in the will potentially emit 250 tom tent regulated under the Clear or be located in an attainment		X	
II. A	NAME O	F FACILITY									بتعلامته	
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PROCESSES 1. PROCESS CODES:			
For listed hexardous waste: For each fisted hexardout to indicate how the waste will be stored, treated, and/For non-listed hexardous wastes: For each character	or disposed of at the	facility.	
contained in Item III to indicate all the processes to that characteristic or toxic contaminant. Note: Four spaces are provided for entering process.	se codes. If more are	needed: (1) Enter the first three as described	above; (2) Enter "000" in 1
extreme right box of Item IV-D(1); and (3) Enter in to 2. PROCESS DESCRIPTION: If a code is not listed for			
TE: HAZARDOUS WASTES DESCRIBED BY MORE			
The then one EPA Hezerdous Waste Number shell be descript.  1. Select one of the EPA Hezerdous Waste Numbers and quantity of the veste and describing all the processes. In column A of the next line enter the other EPA "Included with above" and make no other entries on the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	l enter it in column A, to be used to treet, st lezzardous Weste Num	. On the same line complete columns 8.C. and lone, and/or dispose of the wests.	
3. Repeat step 2 for each other EPA Hazardous Waster No.		d to describe the hezardous wests.	,
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#### State of New Jerseu DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 028, Trenton, N.J. 08625

DR. MARWAN M. SADAT, P.E. DIRECTOR

LINO F. PEREIRA, P.E. DEPUTY DIRECTOR

2 6 JUN 1984

Paul E. Wyszkowski, P.E. Group Supervisor, Environmental Management Group AT&T Bell Laboratories 600 Mountain Avenue Murray Hill, NJ 07974

RE: Revised Part A Applications for AT&T Bell Laboratories

Holmdel, EPA ID NO. NJD011328887

2. Crawford Hill, EPA ID NO. NJD000799072

Dear Mr. Wyszkowski:

The Bureau of Hazardous Waste Engineering (the Bureau) is in receipt of your revised Part A application for the above referenced facilities. The Bureau has reviewed the subject submittals and notes the following:

#### NTO 0(1328887 Holmdel Plant

The company's original Part A application submitted to the USEPA listed the following activities:

- Storage in tanks (SO2), design capacity 6,000 gallons;
- 2. Storage in containers (SOI), design capacity 110 gallons.

The hazardous waste types and their estimated annual quantities included D001 (1,000P), D002 (1,000P), D003 (1,000P), F008 (100P), F009 (3,000P), P098 (500P), U002 (475P), U003 (6P), U044 (12P), U134 (15P), U151 (10P), U159 (40P), U211 (10P), U220 (60P), U226 (230P), U239 (60P).

The revised Part A application listed the following activities:

- 1. Storage in tanks (SO2) no change
- 2. Storage in containers (SO1), design capacity 575 gallons.

Types of hazardous wastes and their estimated annual quantities include DOO1 (2640P), DOO2 (42,800P), DOO3 (1,000P), FOO1 (300P), F005 (300P), F009 (7,000P), waste oil (1870P).

- Pleuse twen ouch for end Page

#### Crawford Hill Plant

The company's original Part A application submitted to the USEPA listed the following activities:

1. Storage in tanks (SO2) - design capacity 2,000 gallons

The types of wastes and their estimated annual quantities include U002 (250P), U044 (25P), U159 (10P), U220 (10P), U228 (350P), U239 (10P), D001 (500P), D002 (500P), D003 (500P).

The revised Part A application listes the following activities:

1. Storage in tanks (SO2) - no change

The types of wastes and their estimated annual quantities include D008, D009, D002 (170,000P total waste).

The Bureau hereby accepts the revised Part A applications for the above referenced facilities, and will request that the USEPA revise its RCRA databank accordingly.

If you have any questions relative to this matter, please feel free to contact Ali Chaudhry of my staff at (609) 633-7714.

Very truly yours,

Thumas Sherman for

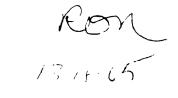
Frank Coolick, Chief Bureau of Hazardous Waste Engineering

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c: Joel Golumbek, USEPA Dr. Richard Baker, USEPA REFERENCE NO. 9

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## State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 028, Trenton, N.J. 08625

DR. MARWAN M. SADAT, P.E. DIRECTOR

0 6 UEC 1985

LINO F. PEREIRA P.E. DEPUTY DIRECTOR

#### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Paul E. Wyszkowski, P.E. Group Supervisor, Environmental Management Group AT&T Bell Laboratories 600 Mountain Avenue Murray Hill, New Jersey 07974

RE: AT&T, Holmdel EPA ID NO. NJD 011 328 887

Dear Mr. Wyszkowski:

The Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.) authorized the New Jersey Department of Environmental Protection (NJDEP) to establish a program requiring permits for hazardous waste treatment, storage or disposal facilities. NJDEP has issued regulations to implement this permit program, which can be found under N.J.A.C. 7:26-1.1 et seq.

Pursuant to these regulations, specifically N.J.A.C. 7:26-12.3, your facility has been operating as an existing facility since the New Jersey Hazardous Waste Management Regulations (N.J.A.C. 7:26-1.1 et seg.) became effective on October 8, 1981. Our records show that you have submitted either Part A of the USEPA RCRA Permit Application or Part A of the New Jersey Hazardous Waste Facility Permit Application. If necessary, your Part A application shall be revised to reflect the requirements of N.J.A.C. 7:26 1.1 et seg. Forms may be obtained from this office or U.S.E.P.A. Region II at (212) 264-9880.

This letter shall constitute an official request for the complete New Jersey Hazardous Waste Facility Permit Application, which shall include items set forth in Attachment I.

Your alternative information statement and affidavit should be submitted no later than three (3) months from the date of this letter. The remaining sections of your application should be submitted no later than six (6) months from the date of this letter. Failure to submit the required application by this date shall constitute grounds for termination of existing facility status pursuant to N.J.A.C. 7:26-12.3(f)2.

As stated above, your full application is not due until six (6) months from the date of this letter. However, I would encourage you to start work on it as early as possible because there is a significant amount of information to be submitted. All submittals should be addresses to the attention of:

Frank Coolick, Chief Bureau of Hazardous Waste Engineering Division of Waste Management New Jersey Department of Environmental Protection 8 East Hanover Street Trenton, New Jersey 08625

Initially, all applicants shall submit three (3) copies of the application. The Department will notify the applicant as to how many additional copies are needed for distribution to appropriate state and local authorities when it completes its initial evaluation of the application.

Should you wish to treat part of your application as confidential information, please refer to Attachment II, which outlines the procedures to be followed in making this claim.

I have taken the liberty of scheduling two (2) application conferences in order to assist you in preparing this application. These conferences have been schedules for January 14, 1986 and March 11, 1986 at 10:00 am. These conferences will be held in the conference room, 8 Fast Hanover Street, Trenton, New Jersey 08625. If it is determined that one or both of these conferences is unnecessary, please notify my office of the cancellation.

Should you have any questions regarding this official request to submit your Hazardous Waste Facility Permit Application, please do not hesitate to contact me at (609) 984-6724 or the Bureau of Hazardous Waste Engineering at (609) 984-4892.

Very truly yours,

Edward J. Indres, P.E.

Assistant Director

Engineering

EP9:1k Attachments

c: Angel Chang, USEPA

REFERENCE NO. 10

popular annual constitution

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RCRA PERMIT APPLICATION
FOR
AT&T BELL LABORATORIES
HOLMDEL FACILITY
CRAWFORDS CORNER ROAD
HOLMDEL, NEW JERSEY 07733

MAY 1986

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# HAZAHDOUS WASTE PERMIT APPLICATION Consolidated Farmits Program

(This information is required under Section 3005 of RCRA.)

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FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES INVA TIAT, POR EACH PROCESS ENTERED MENT UDE DESIGN CAPACITY

#### **DESCRIPTION OF HAZARDOUS WASTES**

EFA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Subpert D for each listed hezardous waste you will handle. If you die hazardous westes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characterisand/or the toxic contaminents of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY - For each listed wests entered in column A estimate the quantity of that wests that will be handled on an annual basis. For each characteristic or toxis contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled ich possess that characteristic or contaminant,

Emit OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	. •	KILOGRAMS	. , K
TONS	. T	METRIC TONS	. , M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into sount the appropriate density or specific gravity of the wasts.

#### PHOCESSES

- 1. PROCESS CODES:
  - For listed hazardous waste: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the weste will be stored, treated, and/or disposed of at the facility.
  - For non-listed hexardous westes: For each characteristic or toxic contaminent entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treet, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminent.
  - Note: Four spaces are provided for entering process codes, if more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).
- PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.
- T: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER Hazardous wester that can be described by then one EPA Hazardous Waste Number shall be described on the form as follows:
- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns 8,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to trest, store, and/or dispose of the waste.

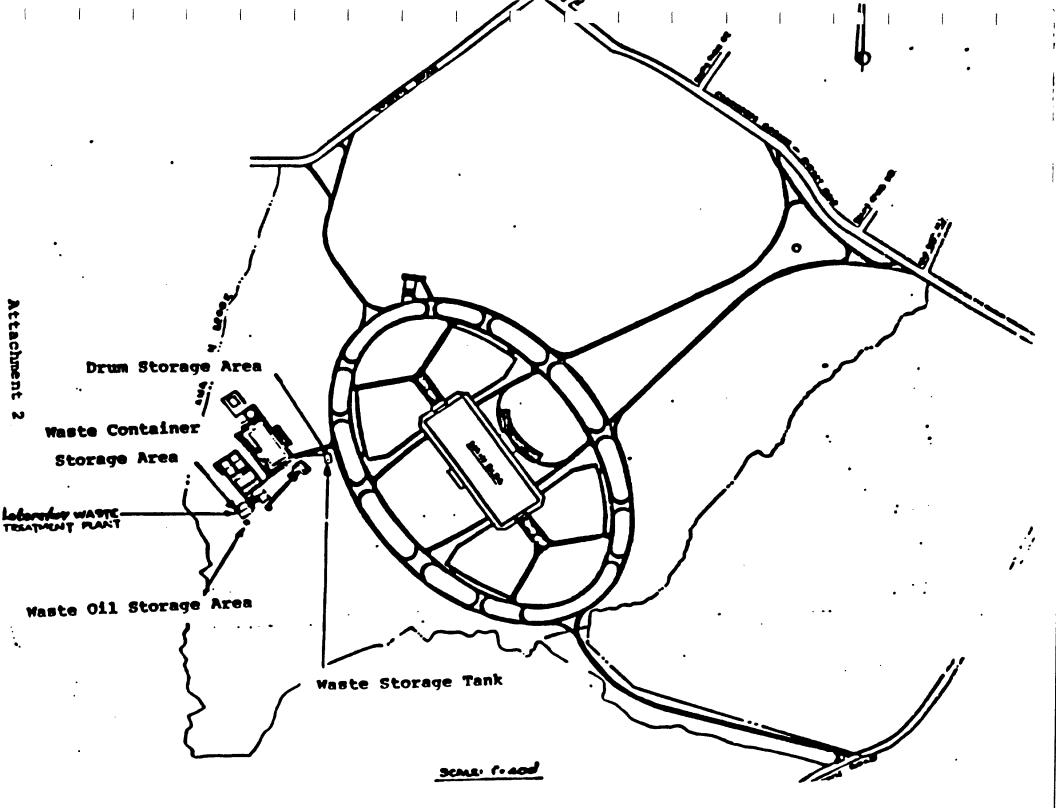
  2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- "included with above" and make no other entries on that line,
- Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

AMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated sounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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SCRIPTION OF HAZARDOUS WASTES (c	ontinued)		
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1 10-3 (6-80)	PAGE 4 O		CONTINUE ON PAGE 5



#### 1.0 GENERAL FACILITY DESCRIPTION AND LOCATION INFORMATION

The Holmdel facility of AT&T Bell Laboratories is located at Crawford Corners Road in Holmdel Township, Monmouth County, New Jersey. The facility consists of a large main building surrounded by several small buildings situated on approximately 500 acres. The facility consists of laboratories and offices employing approximately 8,000 employees who perform communications-related research.

The hazardous waste facilities at the Holmdel facility are situated at two locations on the site:

- (1) A 6,000-gallon concentrated waste storage tank is constructed of lined steel and located below grade within a concrete vault.

  Adjacent to this tank is a diked concrete slab where the liquid waste in drums is stored.
- (2) A small container storage area is located within the laboratory wastewater treatment facility; the area consists of two masonry block rooms and one flammable liquid storage cabinet.

The tank vault is constructed of concrete, has inside dimensions of 11 feet by 21 feet by 12-1/2-feet deep and has a wall thickness of 14 inches. The vault has both an internal and external coating, and is equipped with a sump pump and a ventilation system.

A steel grating is located above the tank at the top of the vault. A wood-framed asphalt-shingled roof covers the waste liquid storage tank and vault system.

The concentrated waste storage tank receives small quantities of miscellaneous liquid wastes from research and development laboratories within the main building. These wastes are fed into the tank through a manual pouring station. The majority of the wastes that are poured into the tank are

miscellaneous solvents which primarily include acetone, methanol, trichloroethane, and trichloroethylene. Approximately once per year the contents
of the tank are removed off site for treatment. The proper manifests are
completed for this removal.

The drum storage area is comprised of a 14 foot 2 inch by 39 foot 6 inch concrete pad with 6-inch-high curbing on three sides. The pad slopes away from the noncurbed side toward a collection drain. This drain is connected to the concentrated waste storage tank. The drums are stored within this area on wooden pallets.

The materials that are stored in the drum storage area are waste liquids that normally are limited to spent etching solution and waste paint thinner.

The etching solution currently used at the Holmdel facility is the Philip A. Hunt Chemical Corporation's Endura-Etch. The spent solution is corrosive and contains ammonium hydroxide, ammonium chloride, and copper. Periodically the spent etching solution is shipped with the proper documentation back to the Philip A. Hunt Chemical Corporation, where it is recycled.

The paint thinner utilized at the Holmdel facility is 100 percent odorless mineral spirits. Periodically the waste paint thinner is shipped with the necessary documentation for offsite disposal.

The small container storage area receives small amounts of waste chemicals from miscellaneous laboratory operations within the Holmdel facility. These materials are identified by the laboratory occupants prior to removal to the small container storage area.

Periodically (approximately once per month) the waste materials within the small container storage area are packaged (lab packed) by an outside contractor and transported off site for treatment or disposal.

#### 2.0 CHEMICAL AND PHYSICAL ANALYSES

The analytical results of samples taken from the concentrated waste storage tank are included in Section 4.0, Waste Analysis Plan. The test methods for analysis are listed in Table 4-2.

The materials that are stored in the small container storage area are identified by the user in the laboratory by an unwanted chemical removal tag. This is shown in Figure 2-1. These materials are not routinely analyzed.

The paint thinner in the drums is already identified by the user in the laboratory by an unwanted chemical removal tag. This waste is also not routinely analyzed.

The spend etchant is also identified in the laboratory by the user by an unwanted chemical removal tag so that the etchant can be taken by porters in the drums. These drums are shipped back to the Philip A. Hunt Chemical Corporation where the etchant is beneficially recycled. The waste is not analyzed at Holmdel.

#### 3.0 PROCESS WASTE STORAGE DESCRIPTION

The raw materials arrive at the facility in drums and bottles, and are used in the laboratories for research and development purposes. The spent materials are defined as hazardous waste by the Resource Conservation and Recovery Act (RCRA). Since AT&T stores the waste for periods longer than 90 days, it is considered to be a hazardous waste facility. Figure 3-1 is a flow schematic of the process waste storage facility.

As mentioned in the general facility description, the entire storage operation consists of the concentrated waste storage tank, the drum storage area which comprises approximately 560 square feet and would contain an estimated maximum volume of 550 gallons, and the small container storage area comprised of the two masonry block rooms and the flammable liquid storage cabinet. The estimated maximum volume of the waste stored in the small container storage area is 25 gallons. All waste is identified in the laboratories by the users and taken by porters to the storage area. The waste is taken by the porters in bottles and small containers.

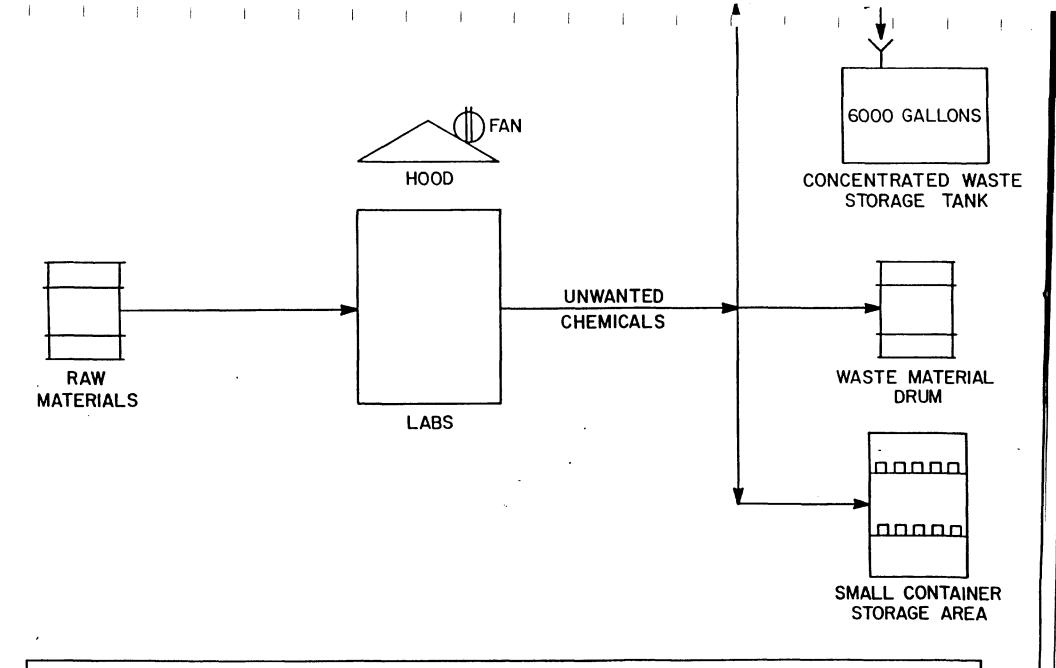
#### Concentrated Waste Storage Tank

Wastes that primarily include acetone, methanol, trichloroethane, and trichloroethylene are poured manually into the tank through the fill pipe. These wastes are periodically removed by an approved transporter to an approved facility. Approximately 5,000 gallons are removed once per year.

#### Drummed Waste

Drummed wastes are identified in the laboratories as being either spent etching solution or waste solvent.

The drums of spent etching solution are periodically shipped back to the Philip A. Hunt Chemical Corporation. Approximately thirty 55-gallon drums are removed per year. The drums are removed ten at a time during different periods during the year.



CDM

environmental engineers, scientists, planners & management consultants

AT+T BELL LABORATORIES

HOLMDEL FACILITY

FIGURE 3-1

FLOW SCHEMATIC

HAZARDOUS WASTE STORAGE FACILITY

The drums of waste solvent that are predominantly paint thinner are periodically removed by an approved transporter to an approved facility. Approximately seven 55-gallon drums are removed twice per year.

#### Small Container Storage

The components of the waste in the small container storage area are identified in the laboratories. Periodically, the waste materials within the small container storage area are packaged by an outside contractor and transported off site for treatment or disposal. Approximately six lab-packed 55-gallon drums are removed per month.

REFERENCE NO. 11





#### State of New Versey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director CN 028 Trenton, N.J. 08625 609 - 292 - 1250

Paul E. Wyszkowski, P.E. Group Supervisor, Environmental Management Group AT&T Bell Laboratories 600 Mountain Avenue Murray Hill, N.J. 07974

2 2 SEP 1986

Dear Mr. Wyszkowski:

RE: Hazardous Waste Facility Part B Permit Application for AT&T Bell Laboratories (Holmdel Site), Holmdel, Monmouth County, EPA ID No. NJD 011 328 887

The Bureau of Hazardous Waste Engineering has completed a preliminary review of your company's Hazardous Waste Facility Part B permit application submittal of May 30, 1986.

Review of the application has revealed that certain items necessary to complete the application have not been submitted.

Enclosed please find a Hazardous Waste Facilities checklist and comment sheet which indicate what information had been found missing in your company's submittal. Items marked "no" on the checklist are application requirements which have been found deficient. The comment sheet explains the deficiencies in these items.

Your company shall submit the additional information required to correct these deficiencies within thirty (30) days from the date of this letter. Failure to submit a timely and complete response could be cause for enforcement action and initiation of denial procedures.

The above requested information should be prepared as an addendum to the application of record. Your response to this letter should be submitted to Bureau in triplicate. After your application is considered administratively complete, you will be notified of the number of additional copies of the entire complete application your company will be required to submit for distribution by this Bureau to other State agencies and your local county and municipal offices.

If there are any questions about this matter, please call Bob Patel of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr., Acting Chief Bureau of Hazardous Waste Engineering

EP9/sg Enc.

c: Angel Chang, USEPA, Region II

## HAZARDOUS WASTE FACILITIES CHECKLIST

Applicant: AT&T B	ell Laboratories (Holmdel Site)
Application for:	X Part A. X Part B
Facility Type:	Storage
Part A	
Yes No N/A*	
<u> </u>	Activities conducted by the applicant.
_X	Name, mailing address and location of the facility.
_X	Name, address, and telephone number of the owner(s) of the facility.
X	Up to four Standard Industrial Classification (SIC) codes which best reflect the principal products or services provided by the facility.
X	Operator's name, address, telephone number, ownership status and status as a Federal, State, private, public or other entity.
X	Facility located on Indian lands.
refer to ite	Permits or construction approvals received or applied for according to N.J.A.C. 7:26-12.2(d)7.
<del></del>	Topographic map according to N.J.A.C. 7:26-12.2(d)8.
<u> </u>	Erief description of the nature of the business.
<u>x</u>	Latitude and longitude of the facility.
<u>x</u>	Indication if the facility is new or existing and whether it is a first or revised application.
<u>x</u>	For existing facilities, a scale drawing of the facility according to N.J.A.C. 7:26-12.2(d)12.
	For existing facilities, photograph of the facilities according to N.J.A.C. 7:26-12.2(d)13.
Inadequate refer to items 3	Types of hazardous waste listed or designated under N.J.A.C. 7:26-8.1 et seg. to be treated, stored or disposed annually.
	Estimate of the quantity of wastes to be treated, stored or disposed annually.
X	General description of the process.

\*N/A - Not Applicable

Part	В		-
Yes	No	N/A*	
. X	 Inade	- <del></del> quate	General description of the facility and how it will operate to accept, treat, store and dipose of hazardous waste.
	fer <sub>X</sub> to	item 4	Waste analysis plan.
- <b>-</b> ·	<u>X</u>		Chemical and physical analysis of hazardous waste to be handled at the facility.
<u>x</u>			Flow schematics, material balance, and general type of equipment to be used.
<u>X</u>	adequa		Description of the security procedures and equipment required by N.J.A.C. 7:26-9.4(h).
	<u> X</u>	items 5	Copy of the general inspection schedule required by N.J.A.C. 7:26-9.4(f) and $7:26-10.1$ et seq.
<u> </u>			Description of the preparedness and prevention procedures and equipment required by N.J.A.C. 7:26-9.6.
	<u> </u>	efer to i	Contingency plan and emergency procedures required by N.J.A.C. 7:26-9.7.
<u> </u>			Engineering designs according to N.J.A.C. 7:26-12.2(e)9.
		efer to it	Description of procedures, structures or equipment used at the facility according to N.J.A.C. 7:26-12.2(e)10.
<u> </u>			Description of precautions to prevent ignition or reaction of ignitable, reactive, or incompatible wastes as required by N.J.A.C. 7:26-9.4(e).
<u> X</u>			Deed, lease, options, etc.
	X	efer <sub>9</sub> to i	Topographic map according to N.J.A.C. 7:26-12.2(e)13.
		<u> </u>	Seismic activity information as per N.J.A.C. 7:26-12(e)1
X			Identification of whether the facility is located within 100 year flood plain according to N.J.A.C. 7:26-12.2(e):
<u> x</u>			Closure plan.
		<u>X</u> .	Post-closure plan.
<u>X</u>			For existing facilities, documentation that a notice has been placed in the deed or appropriate alternative instance as required by N.J.A.C. 7:26-9.9(m).
X			The most recent closure cost estimate for the facility prepared in accordance with N.J.A.C. 7:26-9.10(d), plus a copy of the financial assurance mechanism adopted in compliance with N.J.A.C. 7:26-9.10(e).

Yes	ИО	*A\N	
_X_			Copy of the insurance policy according to N.J.A.C. 7:26-12.2(e)20.
<u> x</u>			Disclosure Statement.
		<u> </u>	Environmental and Health Impact Statement (DHIS).
<u> x</u>			CP #1 form and supplement.
<u> </u>			Application fee.
—- <del>X</del>			Engineering fee.
<u> </u>			Plans, drawings and narrative reports signed and sealed by N.J.P.E.
Cert	ifica	tion.	
Yes	ИО		
<u> </u>	•		Certificate of liability from the signing applicant according to N.J.A.C. 7:26-12.2(j).
Addi	tiona	l info	rmation required for:
Faci	litie	s that	store containers of hazardous waste
Yes	ИО	N/A*	
X			Description of the containment system according to N.J.A.C. 7:26-12.2(f)li.
X			Sketches, drawings or data demonstrating compliance with N.J.A.C. $7:26-9.4(d)$ .
Faci	litie	s that	use tanks to store or treat hazardous waste
Yes		N/A*	
		refer to	Design standards or other available information of the tank.
	<u> </u>	—	Tank dimensions, capacity and shell thickness.
<u> x</u>			Diagram of piping, instrumentation and process flow
	<u> </u>	refer to	Description of feed system, safety cutoff, by-pass systems and pressure controls.
<u>×</u>			Description of procedures for handling incompatible ignitable, or reactive waste, including the use of buffer zona.

Faci:	lities	that	store or treat hazardous waste in surface impoundments
Yes	No	N/A*	
	<u> </u>	<del>-x-</del>	Statement indicating minimum freeboard according to N.J.A.C. 7:26-10.6. For flow through facilities a hydraulic profile shall be included.
<del></del>	<del></del>	<u> </u>	Detailed drawings of the structure which will be provided to stop the flow into the impoundment.
		<u>X</u>	Detailed drawings of any dikes.
		<u> </u>	Detailed designs, drawings and specifications of the liner(s) and the leachate detection, collection and removal system.
<del></del>		<u>x</u>	Liner installation instructions. For existing facil- ities a description of the installation procedures used.
	<del></del>	<u>X</u>	Description of the maintenance and repair procedures proposed to comply with N.J.A.C. 7:26-10.6(c)4 and 7:26-9.4(f).
		<u>x</u>	Description of the operating procedures according to $7:26-10.6(j)$ , (k) and (l).
		<u> </u>	Site geology according to N.J.A.C. 7:26-12.2(f) 3xii.
Faci	lities	that	incinerate hazardous waste
Yes	No	N/A*	
		<u>x</u>	Submission of all requirements of a Trial Burn Plan according to N.J.A.C. 7:26-12.9(b).
		<u> </u>	Submission of results of trial burn according to N.J.A.C. 7:26-12.2(f) 4i.
			Submission of results of comparable incinerator data according to N.J.A.C. 7:25-12.2(f)4ii and iii.

Other information soil sampling and analysis plan refer to item !3

#### Comment Sheet

Facility Name: AT&T Bell Laboratories (Holmdel Site) EPA ID No. NJD 011 328 887

- l. Provide a copy of the Air Pollution Permit for the storage of waste solvents in the tank or a statement from the Bureau of Air Pollution Operations declaring that such permit is unnecessary.
- 2. Provide photographs of the hazardous waste storage in containers areas and hazardous waste storage in tank area as required under N.J.A.C. 7:26-12-2 (d)13.
- 3a. An updated NJDEP part A application is required, listing correct current NJDEP hazardous waste numbers and estimated annual quantities for each individual wastes to be stored in containers and the tank. There is no waste ID number listed for waste oil in the part A application.

The page 3 of the part A application lists quantities of groups of hazardous waste and not that of individual wastes.

- 3b. Identify the location from which the waste types D001, D002, F001, and F005 (estimated 300 pounds of each waste type) are to be received from off-site. Also, explain why the company wants to receive these waste types at the Holmdel Site.
- 4. The waste analysis plan included in the part B does not address the following requirements:
  - a. Chemical and physical properties of each waste
  - b. Equipment and procedure for collecting representative grab samples for waste streams.
  - c. Frequency of a detailed analysis of waste streams. A detailed analysis of each waste is also required.
  - d. Identify the methods of quality assurance and quality control to address all of the technical aspects of the waste analysis plan.
- 5. Documentation of an updated inspection schedule in the facility general inspection plan is required. The updated schedule should include the following additional items.
  - a. Inspection and frequency for labeling of containers, sealing of containers, condition of container, condition of the storage pad, valve operation position for drainage system and adequate operational condition of shower and eye wash system.
  - b. Inspection and frequency for waste loading pad drain, base of the pit for visible cracks, piping and valve, sump pump, ladder and platform condition in the hazardous waste storage in tank area.
- 6. Documentation demonstrating coordination agreements with hospitals is required according to N.J.A.C. 7:26-9.6(f).

REFERENCE NO. 12

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**NEW JERS** 

DEPARTMENT OF ENVIRONME DIVISION OF WASTE MANAGE



17 -1 8-0 INSPECTION REPORT

REPORT PREPARED FOR:  Generator  Transporter  HWM (TSD) Facility  Name:  Address:  Lot:  County:  Phone:  EPA ID#:  Date of Inspection:	David J. Cesareo, P.E. Environmental Management Specialist  FACILITY INFORMATION  AT & T Bell Laboraturies  Crawford Corner Road  Holmdel  Block:  Nonmosth  1-201-949-2311  NJ D011328887  Sept. 26, 1986
State or EPA Personnel:	PARTICIPATING PERSONNEL  WILLIAM Zavacky
- Facility Personnel:	George Bogdon Senier Phant Engineers David J. Cesareo Env. Management Spec.
Report Prepared by <u>Name:</u> Region:  Telephone #:  Reviewed by:	William Zavacky Central 609-998-1513 Linka Z. Widan
Date of Review:	9-29-86

	FACIL	ITY NAME:	ATOT BELL Lubera Tories
		ADDRESS: .	CRUMIER CORNER Rd
		-	HeLmelel
TIME IN:		COUNTY:	Monmouth
TIME OUT:		EPA ID : .	NT DE11328887
	DATE OF IN	SPECTION:	Sept. 26,1986
PHOTOS TAKEN	∵ YES	⊠ NO	
if yes, how many? _			
SAMPLE TAKEN	☐ YES	Ø NO	NO. OF SAMPLES
NJDEP ID #		<del></del>	
MANIFESTS REVIEWED	₩ YES	□ NO	
Number of manifest	s in compliance	Revie	ous manifest were reviewed during si rue
Number of manifest	s not in compli		

List manifest document numbers of those manifests not in compliance.

e in Same e

) Remark	and Hirelepment Tals.	
) Vehicle	maintinance	
entify the hazardod dentify Waste Code	us waste located on site, and estimate the approximate quantities of each.	
1) Il jum	(fefty fore: gallon) Trichloroethune III	Feel
(2) Il rum:	(fifty five guller) Glammall Tiquil	Dece
1) Hum	(feft, fint gallon) Cleaning Liquid	UORU
2) Myuns	(fifty fort galler) American Hydropide	rolution !

#### SUMMARY OF FINDINGS

#### FACILITY DESCRIPTION AND OPERATIONS

facility is located at Cruwford Corner Road ownship monmouth diked concrete seal container storage in Substitute of two majorary storage constructed of concre

### SUMMARY OF FINDINGS

#### FACILITY DESCRIPTION AND OPERATIONS

has a well therbrees of 14 inches. The yoult has
both an internal and external coating, and is equipped
with a sury pum and a ventilation system. a steel
grating is located above the tank at the top of the
would a woodframed usphalt shingled toof Cover
the tank and vault
The warte storage tank receiver small quantities of
miscellaneous liquid waste from research and development
laboratories within the main building. There
waster are fed into the tank through a manual pruring
station. The majority of the waster that are powed into
station. The majority of the waster that are powed into the tank cirl misrellaneous solvents which premarily
include actione, methanol, trichlossethane and Trich-
lo roethistere.
The fast slopes away from the noncurbed side toward a collection drain. This drain is connected to the
39 foot concrete pad with 6 inch curling on three sides
The rad slopes away from the noncurbed such toward
concentrated waste storage tank. The drums in this wear
are stared on wooden scallely, the material that is stored
in this area is spent etching solution and waste paint
Municipa.
The small container storage area receives small amounts
of waste chemicals from miscellaneous laboratory

# SUMMARY OF FINDINGS

FACILITY	DESCRIPTION .	AND OPERATIONS

operations within the facility. These materials are identified by the laboratory occupants prior to removal to the small container storage area.  Miste all is generated from servicing vacuum pumps air compressors and vehile servicing.
are identified by the laboratory occupants prior
to removal to the small container storage area.
Waste out is generated from servicing vacuum
pumps, aux compressors and vehicle servicing.
The hazardour waste inventory at the facility is
controlled by conjutor, everything put into the tank
The hazardow waste inventory at the facility is introlled by consistor, everything put into the tank is logged. Waste is seroved from the facility by registered collector haulew and it is manifested.
registered collector haulers and it is manifested.
<u>l'</u>

# GENERATOR INSPECTION CHECKLIST

		YES	NO	N/A
7:26-8.5	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?			
	Is the waste hazardous?			
7:26-8.5(b)2	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used? Knew Ledge	_		
	Has hazardous waste been shipped off site since November 19, 1980?			
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.			
	22 Shipments For 1986			
7:26-7.4(a)1	Does the generator have an EPA ID #?	_		
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	~		
7:26-7.4(a)4i	The generator's name, address and phone number?			
7:26-7.4(a)4ii	The generator's EPA ID number?			
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	_		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	_		
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?			
7:26-7.4(a)4vi	The TSDF's EPA ID number?	_		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	¥		

		YES	NO	N/A
7:26-7.4(a)4viii	Special handling instructions and any other information required on the form to be shipped by the generator?	<u>~</u>		
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:			
7:26-7.4(a)5i	Sign the manifest certification by hand?	_		
7:26-7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	سيني	-	
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?			
7:26-7.4(a)5iv	Give remaining copies of the manifest form to the transporter?			
7:26-7.4(f)1	Has the generator maintained facility records for three (3) years? (Manifest(s), exception report(s) and waste analysis)			
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	<u>-                                    </u>		******
7:26-7.4(h)2	If not:			
	<ol> <li>Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and</li> </ol>			<u>_</u>
	<ol> <li>Have exception reports been submitted to the Department covering any of these ship- ments made more than 45 days ago?</li> </ol>			
	Before transporting or offering hazardous waste for transportation off site, does the generator?			
7:26-7.2(a)	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?	<u>'/</u>		
7:26-7.2(b)	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?	/		
	=:=			

YES

	YES NO N/A
7:26-9.3	Accumulation time
	How is waste accumulated on site?
	Containers  Tanks (complete HWMF checklist)  Aboveground
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?
7:26-9.3(a)1	Is waste accumulated for more than 90 days?
	If yes, complete HWMF checklist.

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

SHORT TERM ACCUMULATION STANDARDS (FOR GENERATORS WHO ACCUMULATE WASTE IN CONTAINERS FOR 90 DAYS OR LESS)

		YES	NO	N/A
7:26-9.4	<u>Containers</u>			
	What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty five gallon drums of waste acetone).			
7:26 <b>-</b> 9.4(d)1i	Do the containers appear to be in good condition,			
	not in danger of leaking?	•		
	If no, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			1
7:26-9.4(d)4i	Are all containers securely closed except those in use?			
7:26-9.4(d)4iii	Do containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing or leaking?			
7:26-9.4(d)4iv	Are containerized hazardous waste segregated in storage by waste type?	-		
7:26-9.4(d)4v	Is every container arranged so that its identification label is visible?	estima.		
7:26-9.4(d)5	Is the storage area inspected at least daily?	-	ekanam	
7:26-9.4(d)6	Are containers holding ignitible and reactive wastes located at least 50 feet (15 meters) from the facility's property line?		-	
7:26-11.2	Tanks			
7:26-12.1(a)	Does the generator store hazardous waste in tanks?		-	V
	If yes, what are the approximate number and size of tanks containing hazardous waste?			

Identify the waste treated/stored in each tank.

		YES	NO	N/A
	General Operating Requirements			
7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?			1
	If no, please explain.			
.•				
	Are there leaking tanks?	-		
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?	-		- deligation deligation
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?	-		-
7:26-11.2(d)	Inspections			
	Is the tank(s) inspected each operating day for:			
	<ol> <li>Discharge control equipment</li> <li>Monitoring equipment</li> </ol>		-	
	<ol> <li>Level of waste in tank</li> <li>Construction of materials of the tank</li> <li>Are the tanks and surrounding areas</li> </ol>			
	<pre>(e.g., dike) inspected weekly for leaks, corrosion or other failures?</pre>			
7:26 <b>-9.2(</b> b)	Are there underground tanks used to store hazardous waste?			
	If yes, how many and can they be entered for inspection?	<del></del>	•	<u> </u>
7:26-11.2(e)	Are ignitible or reactive wastes stored in a manner which protects them from a source of ignition or reaction?	-	-	\¿
	If no, please explain.			•

		YES	NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	-		$\frac{1}{}$
7:26-9.4(g)4	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training since six months after the date of their employment or assignment to the facility or to a new position at the facility?			
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?			-
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of the initial training?		-	
	Is there written documentation of the following:			
7:25-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?		-	
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?			Anni Pro-
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training that has been and will be given to personnel in jobs related to hazardous waste management?			*****
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	والإيرالية	ومالحالت	:
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for three years from their last date of employment?	-		
7:26 <b>-</b> 9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		gazan-w	· V_

YES NO N/A

7:26-9.6 Preparedness and prevention

Does the facility comply with preparedness and prevention requirements including maintaining:

1

		_			
	•	-7-			
			YES	NO	NAA
	7:26-9.6(b)1	An internal communications or alarm system?			I
_	7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?			
 	7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?			-
-	7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?			
li-amore.	7:26-9.6(c)	Is equipment tested and maintained?			
Managame	7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?			-
-	7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	-		
_ <i>'</i>		If no, please explain.			
·					•
_		In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	مناسات		<del>ستاني</del>
animano)		Explain.			
-	7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site:			
	7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?			
<del></del>	7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority	- <del></del>		
		to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?			¥
college	•	· Significant services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the services of the			
gen-marketer		Eg. (S. France Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitutio		•	v etk.

			YES	NO	N/A
	7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?			1
	7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?			
	7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?			
	7:26-9.7	Contingency plan and emergency procedures			
	7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?			
	7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?		_	-
	7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	<b>Walleting</b>		
	7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?		_	
	·	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?			
-	7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?			
		Acuel services:			<b>V</b> —

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: A 2 +

		YES	NO	N/A
7:26 <b>-</b> 9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.			1
7:26 <b>-</b> 9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept upto-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?		-	;
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evaucation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evaucation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?			:
7:26-9.7(1)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and			-
	2. Has the contingency plan been submitted to local authorities (police fire depart- ments, emergency response teams)?			<u>\</u>

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## TRANSPORTER INSPECTION

		YES	NO	N/F
·	Does the transporter carry hazardous waste? If yes, explain.			1
7:26-7.5(c)1	Has the transporter obtained a hazardcus waste collector/hauler license from the NJDEP? License #:			
7:26-7.5(d)1	Does the transporter have an EPA identification number?			
7:26-3.4(h)	Do the vehicle(s) have the NJSWA registration number in letters and numbers at least three [3 inches in height?	)		
7:26-3.4(h)	Is the capacity of the vehicle marked on both sides of the vehicle in letters and numbers at least three (3) inches in height?		-	
7:26-3.4(h)	Is the current NJSWA registration certificate in the vehicle?	-		
7:26-3.2(b)	Does the license plate number and registration number on the certificate correspond to the vehicle's license plate number and the registration number displayed on the vehicle?			
7:26-7.5(d)18	Does the transporter have in each registered vehicle a current list of all federal and state agencies to be notified in the event of a discharge of hazardous waste during transportation?			
	How many venicles were inspected?			
7:26-7.5(d)12	Have the drivers received any instruction or training to do with the handling of pazara; . waste?	_		شيونون
7:26-7.5(d)15	Is the transporter equipped with emergency equipment in conformance with subpart H of 49 CFR 393? List equipment.	-	•	· ·

			YES	MÔ	N/A
	7:26-7.5(f)1i to iv	Has the transporter ever had an unauthorized discharge of hazardous waste during trans-portation?			
		If yes, did the transporter:			
	7:26-7.5(f)3i	Give notice, if required by 49 CFR 171.15 to the National Response Center?			
	7:26-7.5(f)3ii	Report in writing as required by 49 CFR 171.16 to the Director. Office of Hazardous Materials, Transportation Bureau, Department of Transportation, Washington, DC 20590?		•	
	7:26-7.5(f)3ifi	Contact the Department at 609-292-5560 or 609-292-7172?			
		MANIFESTS			
	7:26-7.5(d)5	Does the transporter have a manifest form to accompany the waste shipment?		-	-
		Manifest document number:			
	7:26-7.3(a)1	If the shipment originated from a site in New Jersey and is destined for another site in New Jersey, is the manifest form one supplied by the NJDEP?			
•	7:26-7.3(a)2	If the shipment originated from a site in another state and is destined for a TSDF in New Jersey, is the manifest form one supplied by the NJDEP or one approved for use in New Jersey by the Department?	)		
	7:26-7.3(a)3	If the shipment originated from a site in New Jersey and is destined for a TSDF in another state, is the manifest form one supplied by the NJDEP or one approved for use by the Department?			
	7:26-7.5(d)11	If the hauler was unable to deliver a manifested load to the designated facility, did they contact the generator and gain further instructions from them?			
		If yes, cite generator name and manifest number involved.			

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# HAZARDOUS WASTE FACILITY STANDARDS

			YES	NO	N/A
•	7:26-9.4(b)	Waste Analysis			
	7:26-9.4(b)li	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis most contain all the information necessary for proper treatment, storage or disposal of the waste.)		************	
	7:26-9.4(b)1iii	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one: Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous		<u></u>	
	7:26-9.4(b)2	Is there a written waste analysis plan at the facility?	1	مقيوبوانه	***********
		Does it contain:		•	
•	7:26-9.4(2)i	Parameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters?	<u> </u>		
	7:26-9.4(b)2ii	The test methods which will be used to test for these parameters?	_		
-	7:26-9.4(b)2iii	The sampling method which will be used to obtain a representative sample of the waste to be analyzed?	¥		
_	7:26-9.4(b)2iv	The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and upto-date?	<b>-</b> ⊭		**********
	7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?	<u> </u>		,
	7:26-9.4(b)2vii	Procedures which will be used to identify changes in waste stream characteristics?			
	7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?	1		
<del></del>		If yes, when was the plan submitted?  With Part (B)			

			YES	110	N/A
•		Does hazardous waste come to this facility from an outside source? (e.g., another generator)		L	
· .·		If yes, list the name(s) of generators.			
	7:26 <b>-</b> 9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?			¥
		Does the plan describe:			
	7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?		-	_/
	7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?			
_	7:7:26-9.4(h)	Security			
		Does the facility have:			
-	7:26-9.4(h)1i	A 24 hour surveillance system which continuous! monitors and controls entry onto the active portion of the facility? Guard Service	y 		
_	7:26-9.4(h)lii	An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility?	£	-	********
	7:26-9.4(h)3	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?	$\angle$		
_		If no, explain what measures are taken for security.			

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		YES	йС	N/A
7:26-9.4(f)	General Inspection Requirements			
7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:			
7:26-9.4(f)li	Discharge of hazardous waste constituents to the environment?	_/		· Simple
7:26-9.4(f)1ii	A threat to human health?	<u>-1</u>		
7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?	<u>~</u>		<b>Aparlima</b> ture
7:26-9.4(f)3i	Did the owner or operator submit the written inspection schedule to the department?	*		
	If yes, when was it submitted?			
·	purt (B)		,	
7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?			<del></del>
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	-i/_	-	
7:26-9.4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	¥		
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?	_		
7:26-9.4(f)6	Does the owner/operator record inspections in a log?	<u> </u>		
	Are these records kept for at least three (3) years from the date of inspection?	_/		-

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		YES	NO	N/A
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	<u></u>		-
7:26-9.4(g)	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-jo training within 6 months of having been employed?	b ∠		
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	<b>!</b>		
7:26-9.4(g)5	If yes, have facility personnel taken part			-
	in an annual review of training?			-
•	Is there written documentation of the following:	_		
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	- <u>-</u>	****	
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	<u> </u>	•	-
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u> </u>	-	-
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	<u>-</u>		***
7:26 <b>-</b> 9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for 3 years from their last date of employment?	<u> </u>	-	فستنظامه
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development			
	pursuant to NJAC 7:26-9.7?	1		

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			YES	NO	N/A
	7:26-9.6	Preparedness and prevention			
.•		Does the facility comply with preparedness and prevention requirements including maintaining:			
	7:26-9.6(b)1	An internal communications or alarm system?			
	7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	_		
	7:26-9.6(b)3	Portable fire equipment, spill control equipment and decontamination equipment?	:, 		
	7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?			
	7:26-9.6(c)	Is equipment tested and maintained?	_		
	7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?			***
	7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	<b>∠</b>		
		If no, please explain.			
		In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<u></u>		
		Explair.			
		·		·	
	7:26-9.6(f)	Has the facility made the following arrangements as appropriate for tye type of waste handled on site?	s, 		
_	7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and nazardous waste nandled?	<u>~</u>		
				. :	

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		YES	<u>NO</u>	N/A
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authorito a specific police or fire department, and agreements with any others to provide support the primary emergency authority?		-	
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	1		
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	wi7h		oun Hep.Ta dectors on du me.
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?  Fac also has can Fike bett and haz mat	Ten	. <del> </del>	
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?			
7?26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	<u> </u>		
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?			
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention. Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	¥		
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	<u> </u>		

7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?		 
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.	<b>∠</b>	 omphysique.
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	<b>√</b>	 
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	<u>\</u>	 
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:		
	1. Maintained at the facility; and	_	 
	2. Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams)?	<u> </u>	 
7:26-9.8	Closure plan		
7:26-9.8(c)	Does the facility have a written closure plan?	_	 -
·	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	<u> </u>	 
	If yes, does the plan include: $w.Th$ Purt (B)		

			YES	NO	N/A
•	7:26-9.8(e)1i	A description of how and when the facility will be partially closed (if applicable) and ultimately closed?	<u> </u>		
. <b>.</b>	7:26-9.8(e)lii	The maximum extent of the operation which will be open during the life of the facility?			
	7:26-9.8(e)2	An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	<u></u>		
	7:26-9.8(e)3	A description of the steps needed to decontaminate facility equipment during closure?	<u> </u>		
	7:26-9.8(e)4	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?		محيمت	· - <u>-/</u>
~	•	Post Closure Plan N/A			
-	7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility?			-
		If yes, does the plan:			
	7:26 <b>-</b> 9.9(i)	Identify the activities which will be carried on after closure and the frequency of these activities?			**************************************
	7:26-9.9(i)1	Include a description of the planned ground- water monitoring activities and frequencies at which they will be performed?			
para.	7:26-9.9(i)2	Include a description of the planned main- tenance activities, and frequency at which they will be performed, to insure the following	:		
	7:26-9.9(i·)2i	The integrity of the cap and final cover or other containment structures where applicable?			
	7:26-9.9(i)2ii	Describe the function of the facility monitoring equipment?			
•	7:26-9.9(i)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?	*******	anggaphairea	
<i>uran</i> ea	•	Does the owner/operator have a written estimate of the cost of post-closure for the facility?			
		If yes, what is it?			

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.  $\Box$ 

Storage		Treatment	Disposal
Container - pg.	9	Tank - pg. 12	Landfill - pg. 18
Tank, above gro	und - pg. 12	Surface Impoundments - pg	. 15
Tank, below gro	und - pg. 12	Incineration - pg. 20	Surface Impoundments - pg. 15
Surface Impound	ments - pg. 15	Thermal Treatment - pg. 2	3 Other
Waste Piles - p	g. 17		
Uther		Chemical, Physical and Biological Treatment - pg	. 25
		Other	• *
			YES NO N/A
7:26-9.4(d)	Container	<u>'S</u>	
	Describe of wastes	e of containers are used for the size, type, quantity and s (e.g., 12 fifty-five gallo acetone) acetone	nd nature on drums
	2) Lub	pucks Fire small che	en container, new muterial off?
7:26-10.4(b)		' a containment system for s precipitation?	pills,
		describe the containment sy rabing in oill stikage	
7:26-9.4(d)1i	proof comed weld, him sufficier side and impairment	ontainers appear to be of sometruction of adequate wallinge and seam strength, and it material strength to wit bottom shock, while filled it of the container's abilinazardous waste?	thickness, of hstand , without
	If no. e:	kolain.	

-			YES	<u>NO</u>	N/A
-	7:26-9.4(d)1ii	Are the lids, caps, singes or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	∠		
		If no, explain.			
	7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	<u>~</u>		
	7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.		·	
_	7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	<u>~</u>		
one.	•	If no, explain.			
name of the second	7:26-9.4(d)4iii	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	₩.		
<b></b>		If no, explain.			
	7:26-9.4(d)iv	Are containerized halardous wastes segregated in storage by waste lype?	4		
	7:26-9.4(d)v	Are containerized harardous wastes arranged so that their identification label is visible?	1		
	7:26-9.4(d)3	Are hazardous wastes stored in containers made of compatible materials?	_		

₩°			YES	NO_	<u>N/4</u>
	7:26-9.4(d)5	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	<b>₩</b> .		
_	7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	<u>~</u>	***************************************	
	7:26-9.4(d)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?			
		If yes, explain.			
	7:26-9.4(d)7ii	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?	*-	_	
		If yes, explain.			
	7:26-9.4(d)7iii	Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated			
-		from the other materials or protected from them by means of a cike, berm, wall or other device?	<u> </u>		***************************************
Toping angular	7:26-9.4(e)li	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	/		
		If no, explain.			
, included					
	7:26-9.4(e)lii	Does the owner/operator confine smoking and ope flames to specially designated locations when ignitable or reactive wastes are being handled?	_		
•		If no, explain.			
		•			

_	YES NO	N/A
7:26-9.4(e)liii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?	
-	If the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:	
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	
7:26-9.4(e)2v	Threaten human health or the environment?	
7:26-11.2	Tanks	
	What are the approximate number and size of tanks containing hazardous waste?	
	6000 Gal Tunk in a valuet in The great	nel
	that has no Top. The Tank is visable.	
· 	The vault has no Tap See clescent in in Sa Identify the waste treated/stored in each tank.	Berrice RY
•	Mited chemicals - non-chlorinated solvents	
. <del>_</del>	Each Lab sending waste To storage must identi	Fy the
	waste before it Leaves the Lub.	
	General Operating Requirements	
7:26-11.2(a)2	Are hazardous wastes or treatment reagents placed in the tank that could cause the tank or its inner liner to rupture, leak or corrode?	<u>.</u>
***	If yes, please explain.	
	Are there leaking tanks?	

		YES	<u>NO</u>	N/A.
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or rupture corrosion, leaks or other failures?	<b>(</b>		-
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?	<del>dedardo.</del>		_ <i>L</i> _
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?		-	<u> </u>
7:26-11.2(c)	Inspections			
	Is the tank(s) inspected for:			
7:26-9.2(b)	<ol> <li>Discharge control equipment (each operating day)</li> <li>Monitoring equipment (each operating day)</li> <li>Level of waste in tank (each operating day)</li> <li>Construction of materials of the tank (weekly)</li> <li>Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures (weekly)?</li> <li>Are there underground tanks used to store hazardous waste?</li> <li>If yes, how many and can they be entered for inspection?</li> </ol>			
	Has the underground tank been in use on or before November 19, 1980? Specify date.	<b>Andride</b>		<u>~</u>
7:26-11.2(e)	If no, when was the tank placed in use?  1971 - STeel Funk e pery  concrete Vault Sits on sa  Are ignitable or reactive wastes stored in a  manner which protects them from a source of ignition or reaction?	Linea	/- 11 s - Ke	nside a pt cff bitter
-	If no, please explain.			

Revision II 9/6/84 WCH

		•	YES	NO	N/A
-	7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	1		
~-	7:26-9.2(b)3i	Does the facility have a groundwater monitoring plan approved by the Department?			_
	7:26-9.2(b)3ii	Is the use of the tank specified to the manufacturers recommended lifetime?	-		V
	7:26-10.5(e)6	Are the underground tanks subjected to periodic integrity testing?			v

	•	YES	NO	N/A
7:14A-6	Groundwater monitoring			,
	(Applies only to: surface impoundments, landfills, land disposal facilities)			
7:14A-6.2	Does the owner/operator have a groundwater monitoring plan approved by the Department and capable of determining the facility's impact on the quality of groundwater?		***********	
	If no, please explain.			
	How many monitoring wells has the facility installed?			
	What is the depth to groundwater?			
	How many deep monitoring wells are onsite? (Indicate depth of monitoring wells)			
	How many shallow monitoring wells are onsite? (Indicate depth of monitoring wells)			
7:14A-6.3(a)	Is the groundwater monitoring system capable of yielding groundwater samples for analysis?			~~ <u>~</u>
	If no, please explain.			
7:14A-6.3(a)1	Are monitoring wells installed hydraulically upgradient?			$\sim$
	If yes, specify how many and the depth of each.			

_		YES	NO	N/A
7:14A-6.3(a)2	How many monitoring wells are installed hydraulically down gradient?			-
	If yes, specify how many and the depth of each.			
_				
7:14A-6.4(a)	Does the owner/operator have a groundwater sampling and analysis plan?			*****
_	If no, please explain.			
	•			
7:14A-6.4(a)	Does the plan include procedures and techniques for:			
· · · · · · · · · · · · · · · · · · ·	<ol> <li>Sample collection</li> <li>Sample preservation and shipment</li> <li>Analytical procedures</li> <li>Chain of custody</li> </ol>	=		
→':26-11.3	Surface Impoundments			
***************************************	Describe the design and operating features of the surface impoundment to prevent groundwater contamination (e.g., liner leachate collection system).			
<u> </u>	Give the approximate size of surface impound- ments (gallons or cubic feet). Please specify the types of waste stored and treated.			
-				
-				
:26-11.3(a)	Is there at least 2 feet of freeboard in the impoundment?			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

			YES	NO	N/A
	7:26-11.3(b)	Do all earthen dikes have a protective cover to preserve their structural integrity?			
		If yes, please specify the type of covering.			
	7:26-9.4(b)1	Does the owner/operator have a detailed chemical and physical analysis of a representative sample of the waste in the impoundment?			
	7:26-9.4(c)2	Does the owner/operator place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility?			
	7:26-11.3(d)	Does the owner or operator inspect:			
	7:26-11.3(d)1	The freeboard level at least once each operating day to ensure compliance with subsection 11.3(a)?			-
	7:26-11.3(d)2	The surface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks, deterioration or failures in the impoundment?			
	7:26-11.3(f)	Is ignitable or reactive waste placed in the surface impoundment?			
	7:26-11.3(f)1	If yes, is the waste treated, rendered, or mixed before or immediately after placement in the impoundment?		with the same	
	- 7:26 <b>-11.3</b> (f)1i	Does the resulting waste, mixture, or dissolution of material no longer meet the definition of ignitable or reactive waste?		-	
	7:26-11.3(f)1ii	Is the waste treated, rendered or mixed so that it does not:			
	7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?			
10 100	7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, of gases in sufficient quantities to threaten human health?			
_	7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion?	-		<u>.</u>
		•			

			YES	MG	N/A
_	7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	<del></del>		
	7:26-9.4(e)2v	Threaten human health or the environment?		<del></del>	
	7:26-11.3(f)2	Is the surface impoundment used soley for emergencies?			
	7:26-11.3(g)	Are incompatible wastes, or incompatible wastes and materials placed in the same surface impoundment?			
-		If yes, is the waste managed so that it does not:			
	7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?			
	7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?		To Charles	
	7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?			
	7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?			
	7:26-9.4(e)2v	Threaten human health or the environment?			
		Waste Piles			
		How many waste piles are on-site and approximately how large are they? (Please indicate size and height and types of wastes in piles.)			
	,	is the waste pile protected from wind erosion?			
		a) Does it appear to need such protection?			
		b) Explain what type of protection does exis	it.		
	7:26-9.3(a)5i	Is the waste pile larger than 200 cubic yards?			$\searrow$

a commitment that the is

~		YES	NO	N/A
7:26-9.3(a)5ii	Is the pile placed on an impermeable base that is compatible with the waste?		<del></del>	
	If no, explain.			
-				
7:26-9.3(a)5iii	Is run-on diverted away from the pile?			***
7:26-9.3(a)5iv	Is leachate and run-off from the pile collected and managed as a hazardous waste?			
7:26-11.4	Landfills			
_	Identify the types of waste and size of the lar	ıd-		
	•			
_	General Operating Requirements	•		
7:26-11.4(a)1	Is run-on diverted away from all portions of the landfill?	ie		- California
7:26-11.4(a)2	Is run-off from active portions of the land-fill collected?			
7:26-11.4 <sub>\a</sub> )3	Is waste which is subject to wind dispersal controlled?		,	
	Please explain how.			
_				
- 7:26-11.4 a%	Does waste disposal or the disposal operation occur within 200 feet (60.6 meters) of the property boundary?			
7:26-11.4(a)6	Are untreated, ignitable, or reactive wastes placed in the landfill?			$\underline{\checkmark}$
man/mi	If yes, explain.			

_			YES	NO	N/A
****	7:26-11.4(a)7	Are incompatible wastes, or incompatible wastes and materials placed in the same hazardous waste landfill cell?			
		If yes, explain.			
	7:26-11.4(a)8	Are bulk or non-containerized liquid waste or waste containing free liquids placed in a hazardous waste landfill?		-	
		If yes:			
	7:26-11.4(a)8i	Does the hazardous waste landfill have a liner which is chemically and physically resistant to the added liquid and a functioning leachate collection and removal system with a capacity sufficient to remove all leachate produced?			
	7:26-11.4(a)8ii	Before disposal is the liquid waste or waste containing free liquids treated or stabilized, chemically or physically, so that free liquids are no longer present?			
	7:26-11.4(a)9	Are containers holding liquid waste or waste containing free liquids placed in a hazardous waste landfill?			
		lf yes:			
	7:26-11.4(a)9i	Is the container designed to hold liquids or free liquids for a use other than storage, such as a battery?	-		
سني	7:26-11.4(a)9ii	is the container very small, such as an ampule?			
	7:26-11.4(a)10	Are emoty containers crushed flat, shredded, or similarly reduced in volume before it is buried beneath the surface of a hazardous waste landfill?		-	
	7:26-11.4(a)11	Does the owner or operator of a hazardous waste landfill continue to dispose of hazardous wastes subsequent to the detection of any liquid, in the secondary collection system?			
*****	7:26-11.4(b)	Does the owner or operator of a hazardous waste landfill maintain an operating record required in N.J.A.C. 7:26-9.4(i)?			$\frac{}{-}$

•		YES	NO	N/A
7:26-11.4(b)1	Does the owner/operator maintain a map, the exact location and dimensions, including depth of each cell with respect to permanently surveyed bench marks?			
7:26-11.4(b)2	The contents of each cell and the appropriate location of each hazardous waste type within each cell?			
	Are containers holding liquid waste or waste containing free liquids placed in the land-fill?			
	Please describe the types and contents of such containers placed in the landfill.			
	Are empty containers placed in the landfill crushed flat, shredded or similarly reduced in volume before they are buried?			
	Are small containers of hazardous waste in overpacked drums placed in the landfill?	-		V
	If yes, please describe precautions taken			

7:26-11.5

### Incinerator

What type of incinerator is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.)

to prevent the release of the waste.

List the types and quantities of hazardous waste incinerated.

			YES	NO	<u>11/A</u>
		Is the residue from the incinerator a hazard- ous waste?			
		What types of air pollution control devices (if any) are installed in the incinerator unit?			
	·	Is energy recovered from the process?  If yes, describe.			
		What is the destruction and removal efficiency for the organic hazardous waste constituents?		·	
	7:26-11.5(b)1	Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:			,
	7:26-11.5(5)1i	Heating value of the waste?			
	7:26-11.5(b)1ii	Halogen and sulfur content?			
	7:26-11.5(b)liii	Concentrations of lead and mercury?			
	7:26-11.5(2)	If no to any of the above questions, is there justification and documentation?			
		If operating, does it appear the incinerator is operating at steady state for conditions of operation, including temperature and air flow?		***************************************	
		Monitoring and Inspection			
-	7:26-11.5(c)1	Are existing instruments relating to combustion and emission controls monitored every 15 minutes?			1
		If no, explain.			

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		YES	NO	N/A
7:26-11.5(c)1	Does the incinerator have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Circle missing instruments.)			
	If no, explain.			
7:26-11.5(c)2	Is the stack plume observed visually at least hourly for opacity and color?			
7:26-11.5(c)3	Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
	If yes, describe.			
7:26-11.5(c)3	Are all emergency shutdown controls and system alarms checked to assure proper operation?			
· · · · · · · · · · · · · · · · · · ·	Is there any reason to believe the incinerator is being operated improperly? i.e., steady state conditions are not maintained.			
	If yes, explain.			
·	·			
7:26-11.5(c)3	Is the incinerator inspected daily?			
7:26-11.5(e)	Is there open burning of hazardous waste?			$\checkmark$
-	If yes, what is being burned? (Only burning or detonation of explosives is permitted.)			

If open burning or detonation of explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?

	AF2	NU	N/A
Are containers holding liquid waste or waste containing free liquids placed in the land-fill?			:
Please describe the types and contents of such containers placed in the landfill.			
		•	
Are empty containers placed in the landfill crushed flat. shredded or similarly reduced in volume before they are buried?			
Are small containers of hazardous waste in overpacked drums placed in the landfill?	_		-
If yes, please describe precautions taken to prevent the release of the waste.			
Thermal Treatment			
What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.)			
List the types and quantities of hazardous waste thermally treated.			
Is the residue from the thermal treatment unit a hazardous waste?			V
What types of air pollution control devices (if any) are installed in the thermal treatment unit?			

7:26-11.6

	·	YES	<u>NO</u>	N/A
	Is energy recovered from the process?		-	
	If yes, describe.			
	What is the destruction and removal efficiency for the organic hazardous waste constituents?			
7:26-11.6(b)1	Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:			
7:26-11.6(b)1i	Heating value of the waste?			
7:26-11.6(b)1ii	Halogen and sulfur content?			
7:26-11.6(b)1iii	Concentrations of lead and mercury?			
7:26-11.6(2)	If no to any of the above guestions, is there justification and documentation?			
-	If operating, does it appear the thermal treatment unit is operating at steady state for conditions of operation, including temperature and air flow?	·		
• -	Monitoring and Inspection			
-	Are existing instruments relating to combustion and emission controls monitored every 15 minutes?		-	
	If no, explain.			
-				
7:26-11.6(c)1 -	Does the thermal treatment have all the following instruments for measuring: wastefeed auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Circle missing instruments.)	•		
_	If no explain			

_			YES	<u>NO</u> -	N/A
	7:26-11.6(c)2	Is the stack plume observed visually at least hourly for opacity and color?		************	
	7:26-11.6(c)3	Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
_		If yes, describe.			
	7:26-11.6(c)3	Are all emergency shutdown controls and system alarms checked to assure proper operation?			
		Is there any reason to believe the thermal treatment unit is being operated improperly? i.e., steady state conditions are not maintained.			
		If yes, explain.	•	·	
-					
	7:26-11.6(c)3	Is the thermal treatment inspected daily?			+
	7:26-11.6(e)	Is there open burning of hazardous waste?			$\checkmark$
		If yes, what is being burned? (Only burning or detonation of explosives is permitted.)			
		If open burning or detonation of explosives is			
_		taking place, approximately what is the distance from the open burning or detonation to the property of others?			
	7:26-11.7	Chemical, Physical and Biological Treatment			
_		(Other than in tanks, surface impoundments or plant treatment facilities)			

. .....

<del></del>		YES	NO_	N/A
	Describe the treatment system at this facility and the types of wastes treated.			
7:26-11.7(a)2 —	Does the treatment process system show any signs of ruptures, leaks or corrosion?	s ——		
	If yes, describe.			
7:26-11.7(a)3	Is there a means to stop the inflow of continuously-fed hazardous wastes?			
	Inspections		:	
7:26-11.7(c)1	Is the discharge control safety equipment (e.g. waste feed cut-off systems, by-pass systems, drainage systems and pressure relief systems) in good working order?	,		
- 7:26-11.7(c)1	Are they inspected at least once each operation day?			
7:26-11.7(c)2	Does the data gathered from the monitoring equipment (e.g., pressure and temperature gauges) show treatment process is operating according to design?	*********	•	
7:26-11.7(c)2	Is data gathered at least once each operating day?			-
7:26-11.7(c)3	Are construction materials of the treatment process inspected at least weekly to detect corrosion or leaking of fixtures and seams?			
7:26-11.7(c)4	Are the discharge confinement structures (e.g., dikes) immediately surrounding the treatment unit inspected at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).			
7:26-11.7(e)1	Are ignitable or reactive waste fed into the waste treatment system treated or protected from any material or conditions which may cause it to ignite or react?		****	Y
	If yes, explain how.			

7:26-11.7(f). Are the incompatible wastes placed in the same treatment process?

If yes, please explain.

REFERENCE NO. 13

Many party to a well-

Bernat Land City Land Street



13-18-05

# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

## DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director CN 028 Trenton, N.J. 08625 609 - 292 - 1250

Paul E. Wyszkowski, P.E. Manager, Environmental Management Department AT&T Bell Laboratories Whippany Road Whippany, N.J. 07981-0903

1 8 NOV 1986

Dear Mr. Wyszkowski:

RE: Extension of Due Date for Additional Information for Part B Application of AT&T Bell Laboratories (Holmdel Site), Holmdel, Monmouth County, EPA ID No. NJD 011 328 887

This letter responds to your letter of October 10, 1986 in which you request an extension of the due date of October 22, 1986 specified in my letter of September 22, 1986 due to additional time needed for preparation of a soil sampling and analytical plan and other required documents for the Part B application of the above referenced facility.

The Bureau of Hazardous Waste Engineering is agreeable to this request, and hereby extends the due date to December 3, 1986.

Should you have any questions on this matter, please call Bob Patel of my staff at (609) 633-0736.

Very truly yours,

Charles Million

Ernest J. Kuhlwein, Jr., Acting Chief Bureau of Hazardous Waste Engineering

EP9/sg

c: Angel Chang, USEPA

REFERENCE NO. 14

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#### AT&T Bell Laboratories

Whippany Road Whippany, New Jersey 07981-0903 201 386-3000 MO-2F-204

December 3, 1986

Mr. Earnest J. Kuhlwein, Jr.
New Jersey Department of
Environmental Protection
Division of Hazardous Waste Management
CN 028
Trenton, New Jersey 08625

Subject: RCRA Part B Application

for AT&T Bell Laboratories (Holmdel Site),

Holmdel, Monmouth County, New Jersey

EPA I.D. No. NJD 011 328 887

Addendum

Dear Mr. Kuhlwein:

In response to the NJDEP checklist of incomplete items, dated September 26, 1986, we have prepared the following specific revisions and insertions and have included them is the enclosed three (3) copies of the revised RCRA Part B application for the above referenced project. We have also prepared and included there (3) copies of an addendum to the application which summarizes State comments, AT&T Bell Laboratories responses and references to specific sections of the Part B application that were revised to address State comments.

The specific NJDEP comments, AT&T responses and sections of the application revised are as follows:

- Comment 1: Provide a copy of the Air Pollution Permit for the storage of waste solvents in the tank or a statement from the Bureau of Air Pollution Operations declaring that such permit is unnecessary.
- Response 1: As per our discussion with Tom Micai of the NJDEP, under title 7 chapter 27 and subchapters 8, 16, and 17, the subject tank is "grandfathered" and does not require an air emission permit. In addition, under subchapter 17 it is also exempt form the registration requirements.
- Comment 2: Provide photographs of the hazardous waste storage in containers areas and hazardous waste storage in tank area as required under N.J.A.C. 7:26-12 (d) 13.

- Response 2: Photographs of the hazardous waste storage areas are included in the general sections of the revised Part A application and are included within this addendum and the revised Part B application.
- Comment 3a An updated NJDEP part A application is required, listing correct current NJDEP hazardous waste numbers and estimated annual quantities for each individual wastes to be stored in containers and the tank. There is no waste ID number listed for waste oil in the Part A application.

Page 3 of the part A application lists quantities of groups of hazardous waste and not that of individual wastes.

- Response 3a: A revised and updated NJDEP Part A application has been included in the revised Part B application and a copy has been included within this addendum.
- Comment 3b: Identify the location from which the waste types D001, D002, F001, and F005 (estimated 300 pounds of each waste type) are received from off-site. Also, explain why the company wants to receive these waste types at the Holmdel Site.
- Response 3b: Information concerning locations from which waste types D001, D002, F001, and F005 are received from off-site as well as the rationale for this transfer are included in section 1.0. These facilities include AT&T Crawford Hill, Middletown and the the Red Hill Road facilities which generate very small quantities of these waste types and are not permitted for this type of hazardous waste storage. The intention for this method of waste collection is to consolidate the wastes for shipment from one location in order to dispose of the material in the most environmentally sound and cost effective manner.
- Comment 4: The waste analysis plan included in the part B does not address the following requirements:
  - a. Chemical and physical properties of each waste.
  - Equipment and procedure for collecting representative samples

- c. Frequency of a detailed analysis of waste streams. A detailed analysis of each waste is also required.
- d. Identify the methods of quality assurance and quality control to address all of the technical aspects of the waste analysis plan.
- Response 4: The revised waste analysis plan is included in section 4.0 of the revised Part B. application. Identification of physical and chemical properties of each waste and frequency of detailed analysis are outlined on tables 4-2 and 4-3 which are included with this addendum. Equipment and procedures for collection on representative samples as well as quality assurance and quality control measures to address all technical aspects of the waste analysis plan are also discussed in section 4.0. Samples will be collected with equipment such as a bacon bomb sampler for the tank or glass coliwasa for the drums and analyzed by a NJDEP certified laboratory. Quality control samples will also be utilized to insure accurate analytical results.
- Comment 5: Documentation of an updated inspection schedule in the facility general inspection plan is required. The updated schedule should include the following additional items.
  - a. Inspection and frequency for labeling of containers, sealing of containers, condition of container, condition of the storage pad, valve operation position for drainage system and adequate operational condition of shower and eye wash system.
  - b. Inspection and frequency for waste loading pad drain, base of the pit for visible cracks, piping and valve, sump pump, ladder and platform condition in the hazardous waste storage in tank area.
- Response 5: An updated inspection schedule in the facility general inspection plan has been included in section 6.0 table 6-1 of the revised Part B application and a copy included within this addendum. This schedule addresses all additional items as requested.
- Comment 6: Documentation demonstrating coordination agreements with hospitals is required according 1 N.J.A.C. 7:26-9.6(f).

Response 6: As previously discussed, the Holmdel location has its own medical facilities including a staff of doctors and nurses who respond to medical emergencies at the facility. In addition, the facility has established a strong working relationship with Bayshore Hospital.

Documentation on the coordination agreements between Bayshore and the Holmdel facility will be forwarded under separate cover.

Comment 7: Documentation of job descriptions, qualifications and the responsibilities for each position of the employee who works with hazardous waste handling at the facility pursuant to N.J.A.C. 7:26-9.4(g)6ii is required.

Response 7: Job descriptions, qualifications and the responsibilities for each position of employees that work with hazardous waste handling at this facility are included in section 20.0 supplement 20-1 and are included within this addendum.

Comment 8 A detailed description of procedures to prevent clogging of the waste pouring device and its connecting piping used for unloading operation of waste into the tank is required according to N.J.A.C.7:26-12-2(e)10.

Response 8 A detailed description of procedures to prevent clogging of the waste pouring device and its connecting piping are outlined in section 10.0. This station will be equipped with a screen which is intended to separate any solids within the wastes being transferred. Standard operating procedures will include removal off any accumulated solids before and/or after the transfer of any waste materials.

Comment 9: a. A topographic map according to N.J.A.C. 7:26-12-2(e)13 is required, showing:

b. All public buildings with known names within one mile of the facility.

c. All residential buildings within 1000 feet of the facility. If there is no residential building within one mile of the facility, then list the distance of the nearest residential building from the facility.

Response 9: Copies of the revised topographic map are included in section 13.0 of the revised Part B application and are included within this addendum.

There are no residential buildings within 1,000 feet of the facility. The nearest residential building is located approximately 1,700 feet to the west of the facility. Public buildings within one mile of the facility include buildings in Holmdel Park utilized for the Longstreet Farm and are shown on figure 13-2.

A record search of NJDEP - Division of Water Resources, Bureau of Water Allocation was conducted in an attempt to determine the specific water use for these wells. The only information available indicates that wells D-1 - D-3 and D-7 - D-10 were designated as domestic wells, wells I-4 - I-6 were designated for pre-cooling, condensate make-up and fire fighting protection and well I-11 as general water use.

- Comment 10: Documentation demonstrating structural integrity of the base underlying the tank in hazardous waste storage in tank area and the ability of the base to contain spills, leaks and accumulated liquid as required by N.J.A.C. 7:26 10.5(d).
- Response 10: Design drawings of the base underlying the tank in the hazardous waste storage area have been reviewed and evaluated for the ability of the base to contain spills, leaks and accumulated liquid and this is discussed in section 9.0 of the revised Part B permit application.

The containment vault base for this tank is constructed of 2 feet of epoxy coated reinforced concrete which is compatible with the waste material stored and the vault has sufficient capacity to contain the entire tank capacity. The containment vault is covered by a wooden framed asphalt-shingled roof and extends above ground elevation to eliminate run-on into the containment area and minimize accumulation of precipitation. The base of the vault is also sloped to a sump pump designed to pump any accumulated liquids back into the tank which is raised above the vault vase to eliminate contact with liquids.

Comment 11: Submission of current shell thickness of the hazardous waste storage tank as required under N.J.A.C. 7:26-10.5(b).

- Response 11: Submission of the most recent shell thickness of the hazardous waste storage tank is included in section 6.0 of the revised Part B application. The shell thickness of 5/16 of an inch was last checked in 1978. Subsequent to this the tank was internally inspected in 1980 and the epoxy coating was found to be in excellent condition with no apparent deterioration. Present shell thickness, therefore, is presumed to be 5/16 of an inch.
- Comment 12: Documentation demonstrating the use of overfilling control equipment to prevent overfilling is required to comply with the requirements of N.J.A.C. 7:26-10.5(c)2i.
- Response 12: Procedures utilized to prevent overfilling of the hazardous waste tank are described in section 10.0 of the revised Part B permit.

Standard operating procedures for this facility also include a daily check of the waste level within the tank. The tank contents are pumped out and properly disposed well in advance of the waste quantity reaching tank capacity. This tank is typically pumped out when the capacity reaches approximately 5,000 gallons. This practice eliminates the possibility of tank overfilling.

- Comment 13 As a matter of policy, the Department of Environmental Protection is requiring waste TSD facilities to submit a soil sampling and analysis plan to monitor exposed earthen surfaces in the immediate areas where hazardous wastes are transferred or stored, as well as, solid sedimentation accumulations in drainage systems subject to contamination by hazardous waste residues and constituents. The soil sampling plan shall provide for initial comprehensive analysis of the soils and sediments at the facility for residues of all hazardous waste and hazardous waste constituents, and for facility-specific hazardous waste residues and constituents on a annual basis thereafter.
- Response 13. Appendix A in the revised Part B application is the soil/sediment sampling plan for this facility. A copy of this sampling plan is also attached to this addendum.

If you have a need for further information regarding this submittal please contact myself at (201) 898-1371 or David Cesareo at (201) 898-1375.

Very truly yours,

for Paul E. Wyszkowski, P.E.

Manager

Environmental Management Department

RCRA PERMIT APPLICATION
FOR
AT&T BELL LABORATORIES
HOLMDEL FACILITY
CRAWFORDS CORNER ROAD
HOLMDEL, NEW JERSEY 07733

December 1986

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A Supplement

## RCRA PERMIT APPLICATION INFORMATION

EPA ID No.

NJD011328887

Permit Request

Permit to Store Waste in

Containers and in a Storage Tank

Facility Name

AT&T Bell Laboratories

Holmdel

Facility Address

Crawfords Corner Road

Holmdel, New Jersey 07733

Facility Contact

Paul E. Wyszkowski, P.E.

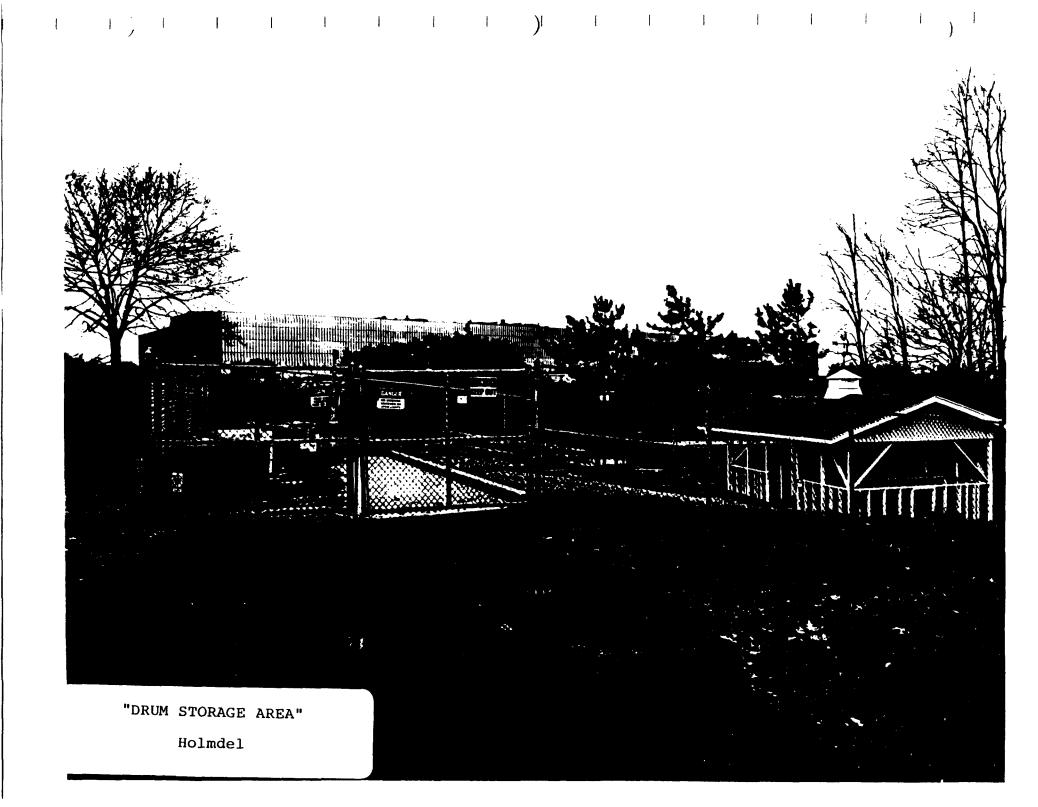
Manager

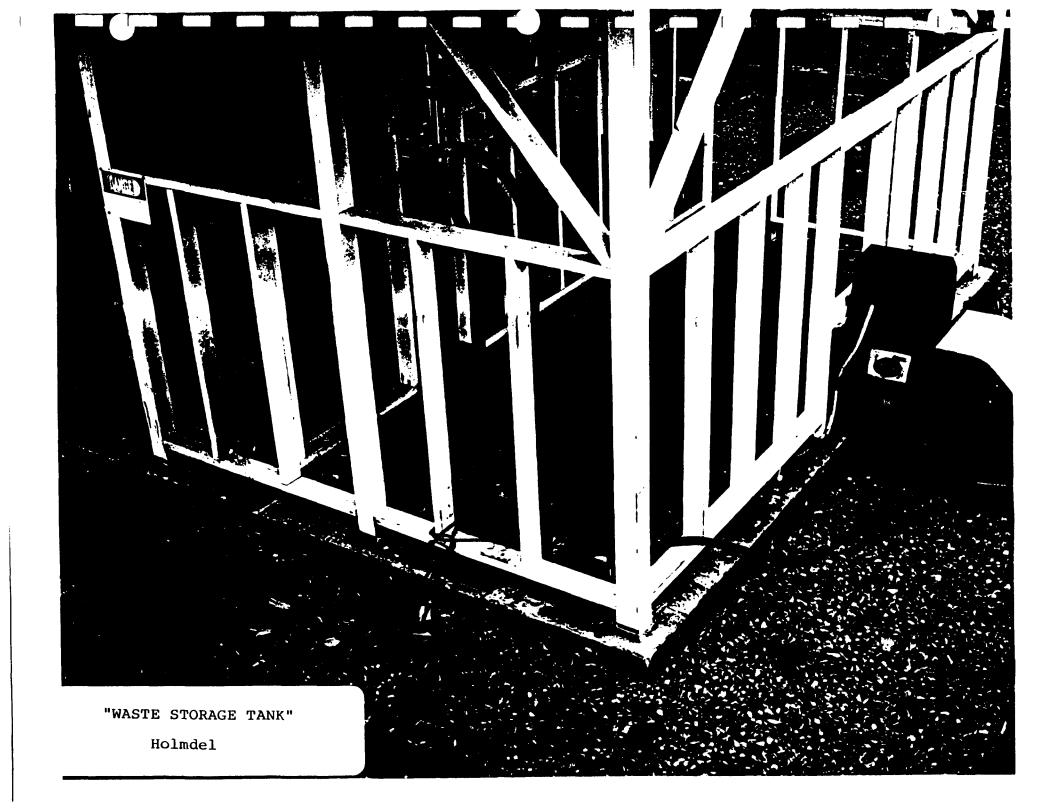
Environmental Management Department

Date of Application

May 1986

(CAA22/39)





## 1.0 GENERAL FACILITY DESCRIPTION AND LOCATION INFORMATION

The Holmdel facility of AT&T Bell Laboratories is located at Crawford Corners Road in Holmdel Township, Monmouth County, New Jersey. The facility consists of a large main building surrounded by several small buildings situated on approximately 500 acres. The facility consists of laboratories and offices employing approximately 8,000 employees who perform communications-related research.

The hazardous waste facilities at the Holmdel facility are situated at two locations on the site:

- (1) A 6,000-gallon concentrated waste storage tank is constructed of lined steel and located below grade within a concrete vault. Adjacent to this tank is a diked concrete slab where the liquid waste in drums is stored.
- (2) A small container storage area is located within the laboratory wastewater treatment facility; the area consists of two masonry block rooms and one flammable liquid storage cabinet.

The tank vault is constructed of concrete, has inside dimensions of 11 feet by 21 feet by 12-1/2-feet deep and has a wall thickness of 14 inches. The tank is situated on a reinforced concrete slab that has a thickness of two feet. The vault has both an internal and external coating, and is equipped with a sump pump and a ventilation system.

A steel grating is located above the tank at the top of the vault. A wood-framed asphalt-shingled roof covers the waste liquid storage tank and vault system.

The concentrated waste storage tank receives small quantities of miscellaneous liquid wastes from research and development laboratories within the main building. These wastes are fed into the tank through a manual pouring station. The majority of the wastes that are poured into the tank are miscellaneous solvents which primarily include acetone, methanol, trichloroethane, and trichloroethylene. Approximately once per year the contents

of the tank are removed off site for treatment. The proper manifests are completed for this removal.

The drum storage area is comprised of a 14-foot 2-inch by 39-foot 6-inch concrete pad with 6-inch-high curbing on three sides. The pad slopes away from the noncurbed side toward a collection drain. This drain is connected to the concentrated waste storage tank. The drums are stored within this area on wooden pallets.

The materials that are stored in the drum storage area are waste liquids that normally are limited to spent etching solution and waste paint thinner and other spent solvents such as the ones listed above for the concentrated waste storage tank.

The etching solution currently used at the Holmdel facility is the Philip A. Hunt Chemical Corporation's Endura-Etch. The spent solution is corresive and contains ammonium hydroxide, ammonium chloride, and copper. Periodically the spent etching solution is shipped with the proper documentation back to the Philip A. Hunt Chemical Corporation, where it is recycled.

The paint thinner utilized at the Holmdel facility is 100 percent odorless mineral spirits. Periodic shipments of the waste paint thinner are shipped with the necessary documentation for offsite disposal.

Limited amounts of ignitable, corrosive, spent halogenated solvents and spent nonhalogenated solvents are periodically received during the year from other AT&T Bell Laboratories Facilities. These facilities include the Crawford Hill, Middletown and Red Hill Road Facilities which generate very small quantities of these hazardous wastes (less than 50 kg/m) and are not permitted for storage. The intention for this method of waste collection is to dispose of this waste in the most environmentally sound and costeffective manner.

The small container storage area receives small amounts of waste chemicals from miscellaneous laboratory operations within the Holmdel facility.

These materials are identified by the laboratory occupants prior to removal

to the small container storage area.

Periodically (approximately once per month) the waste materials within the small container storage area are packaged (lab packed) by an outside contractor and transported off site for treatment or disposal.

(CAA41/4)

#### 9.0 DETAILED FACILITY DESCRIPTION

## 9.1 DESIGN CAPACITY

The hazardous waste facilities at the Holmdel facility are described in Section 1.0. The design capacity at each location is as follows:

- 1. A 6,000-gallon concentrated waste storage tank located below grade is contained within a concrete vault. Adjacent to this tank is a diked concrete slab where drummed liquid wastes are stored.
- 2. A small container storage area located within the laboratory wastewater treatment plant consists of two small storage rooms and one flammable liquid storage cabinet. Each storage room has a diked reservoir that will contain between 40 and 42 gallons of spilled liquids. The flammable liquid storage cabinet has a diked reservoir that will contain approximately 15 gallons.

## 9.2 ESTIMATED LIFE EXPECTANCY

The hazardous waste facilities ultimately will be closed when the Holmdel facility is closed or when operations no longer require such facilities. The closure of these facilities is not anticipated within the foreseeable future. However, for the purposes of regulatory compliance only, it is anticipated that hazardous waste will no longer be generated at the facility in 2085.

## 9.3 CONCENTRATED WASTE STORAGE TANK

The layout of the concentrated waste storage tank including cross sections of the tank, vault, and underground piping is shown in Drawing 1. This figure also identifies a pump located between the storage tank and the drum storage area that is used to transfer the liquid waste to tank trucks for disposal.

The concentrated waste storage tank and drum storage area is enclosed by a 6-foot chain link fence (described in Section 5.0). Access is limited to this area through a double swing gate at the drum storage pad. An emergency eyewash and shower is inside the fence adjacent to the drum storage pad. A fire extinguisher and protective clothing are located at the concentrated waste storage tank. The locations of emergency equipment are shown in Drawing 1.

The containment vault base from this tank is constructed of 2 feet of epoxy coated reinforced concrete which is compatible with the waste material stored and the vault has sufficient capacity to contain the entire tank capacity. The containment vault is covered by a wooden framed asphalt—shingled roof and extends above ground elevation to eliminate run—on into the containment area and minimize accumulation of precipitation. The base of the vault is also sloped to a sump pump designed to pump any accumulated liquids back into the tank which is raised above the vault base to further eliminate contact with liquids.

## 9.4 SMALL CONTAINER STORAGE AREA

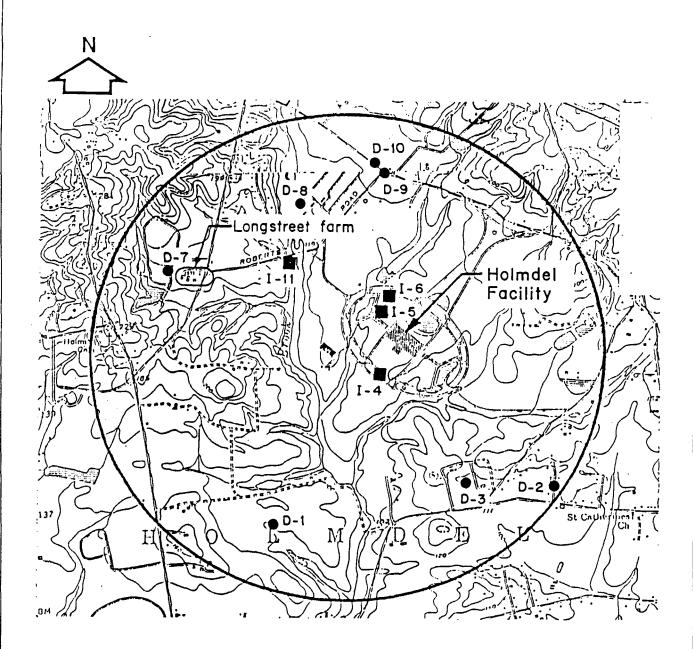
The small container storage area is shown in Figure 9-1. A ducted fan system is used to vent the two storage rooms and the flammable liquid storage cabinet to the outside atmosphere. Safety equipment, including an emergency shower, first aid kit, fire blanket, fire extinguisher, and self-contained breathing apparatus, is located in an adjacent room (see Figure 9-1).

## 9.5 SANITARY AND STORM SEWERS

There are no sanitary sewer inlets within the fenced areas of the concentrated waste storage tank. The drum storage area includes a catch basin that drains storm water from the bermed area to the adjacent stream. A manually operated valve on the drain line is used to divert spilled liquids from the drum storage area to the concentrated waste storage tank. During

periods of rain the valve is opened to allow rain water to discharge into the adjacent stream. The drainage system for the entire facility is shown in Drawing 2.

(CAA41/12)



- Industrial well location
- Domestic well location

1,000 0 1,000 Scale Feet

Figure 13-2

Well and Water Suppliers Within 1 Mile of The Site

environmental engineers, scientists, planners & management consultants

AT& T Bell Laboratories - Holmdel, New Jersey

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## SUPPLEMENT 13-1

## CONSTRUCTION DATA FOR WELLS INVENTORIED WITHIN ONE MILE OF THE SITE

TABLE 1

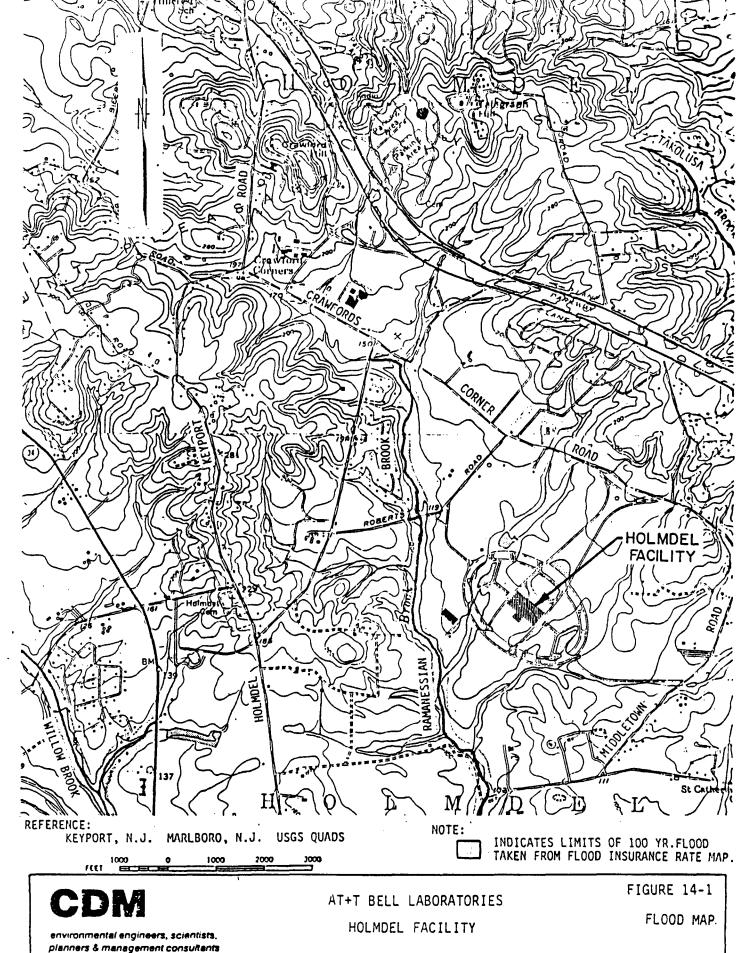
Construction Data for Wells Inventoried Within One Hile of the Site

Well Number	Owner	Year Drilled	Depth (ft)	Casing Diameter (in)	Screened Interval (ft)	Elevation (ft)
D-1	Stillwell, Stan	1965	112	4	106-112	100
D-2	Petruzella, Nick	1949	141	6	135-141	130
<b>₩</b> D-3	Harding, Mrs.	UKWN	210	6	200-210	120
1-4	Bell Tele. Co.	1956	224	8	194-224	105
1-5	Bell Tele. Co.	UKWN	214	10	173-214	120
1-6	Bell Tele. Co.	UKWN	221	10	191-221	120
D-7	Duncan, W. J.	1954	176	6	172-176	145
D-8	F&F Nurseries	UKWN	200	6	190-200	135
D-9	Stillwell, Stan	1956	72	4	68-72	140
D-10	Stillwell, Stan	UKWN	153	4	147-153	147
1-11	Western Elec. Co.	DKWN	220	0	179-220	120

#### 14.0 ONE-HUNDRED YEAR FLOODPLAIN IDENTIFICATION

The concentrated waste storage tank and the small container storage area at the AT&T Holmdel facility are not located within the limits of the 100-year floodplain. The Federal Emergency Management Agency National Flood Insurance Rate Map for the Township of Holmdel, New Jersey was referenced to identify potential flood hazards affecting the waste facilities. The flood map identifies the areas of the hazardous waste facilities as Zone C, which is designated as an area of minimal flooding. The nearest 100-year floodplain is shown in Figure 14-1.

(CAA41/17)



planners & management consultants

#### 15.0 CLOSURE PLAN

## 15.1 PURPOSE

The Closure Plan identifies the procedures required to close the hazardous waste facilities at AT&T in Holmdel. This plan complies with EPA's regulations under RCRA and NJDEP's regulations regarding the closure of hazardous waste facilities. All references to state or federal agencies refer to both EPA and NJDEP agencies with authority over facility closure. All contractors and facilities used in the closure procedure will be properly licensed by EPA or NJDEP as appropriate.

#### 15.2 RESPONSIBLE PARTY

The Manager of Operations and Maintenance for the Holmdel facility is responsible for maintaining this Closure Plan and implementing it at closure.

## 15.3 MAXIMUM INVENTORY

Concentrated waste storage tank	6,000 gallons
Drum storage area	950 gallons
Small container storage area	25 gallons

#### 15.4 TIME OF CLOSURE

The above hazardous waste facilities will be ultimately closed when the Holmdel facility is closed or when operations no longer require such facilities. The closure of these facilities is not anticipated within the foreseeable future. However, for the purposes of regulatory compliance only, it is anticipated that hazardous waste will no longer be received at the site in 2085.

Due to the nature of the facilities, partial closure is considered inapplicable. Ultimate closure of the facilities will include the removal of all hazardous waste and residues and will be completed within 180 days of receiving the final volume of hazardous waste, or within 180 days of receipt of NJDEP approval.

## 15.5 CLOSURE STEPS AND PROCEDURES

The hazardous waste facilities will be closed by removing all hazardous waste and residues. All hazardous waste materials will be disposed of at a state or federally permitted treatment, storage, and/or disposal (TSD) facility.

The following steps will be taken to close the facilities:

## Waste Liquid Storage Tank

- 1. Enter into an agreement with an approved clean-up contractor and a permitted hazardous waste bulk transporter to remove the contents of the tank and properly transport this material to the selected permitted TSD facility. Proper hazardous waste manifest forms will be utilized when transporting this waste material. Removal of the contents of the tank will include all liquid waste and residual sludge.
- 2. Utilize contract services to triple rinse the tank, feed pipe, and pouring station. Each rinse will be carried out using at least 600 gallons of water. Following each rinse step, the tank contents will be removed by the clean-up contractor for subsequent transport and offsite treatment or disposal in accordance with federal and state hazardous waste regulations.

A sample of the final rinse will be taken and analyzed for indicator parameters to confirm the removal of all hazardous waste from the tank and feed system. The analyses will include determinations for total copper by atomic absorption, and chlorinated and nonchlorinated solvents by gas chromatograph. The following concentration levels will be used as guidelines to determine complete removal:

Copper 170 ppm

Chlorinated and Nonchlorinated Solvents 100 ppb

If these levels are exceeded, further rinsing will be performed.

 Utilize plant staff services to seal off pipe inlets to the tank other than ventilation stacks until a decision for disposition or reuse of the tank is made. 4. Certify closure as described below.

### Drum Storage Area

- 1. Enter into an agreement with an approved clean-up contractor and a permitted hazardous waste transporter to remove the drums from the drum storage area and transport this material to the selected permitted TSD facility. Proper hazardous waste manifest forms will be utilized when transporting this waste material.
- 2. Perform wipe samples of the storage area to determine if hazardous waste contamination exists. The samples will be taken at the low point of the concrete pad in the area of the collection drain. These samples will be analyzed for total copper by atomic absorption techniques.

A concentration of 170 ppm of total copper will be used as a guideline to determine if clean-up is warranted. If this concentration is exceeded, the drum storage area will be washed with a commercial cleaner and Step 2 will be repeated.

If cleaning is required, it is estimated that approximately 10 gallons of wash water will be generated. This wash water will be properly packaged and transported off-site for treatment.

3. Certify closure as described below.

#### Small Container Storage Area

- 1. Enter into agreement with an approved hazardous waste contractor to properly package the waste material from the small container storage area and transport this material to the selected TSD facility. Proper hazardous waste manifest forms will be utilized when transporting this waste material.
- 2. Perform wipe samples of the area to determine if hazardous waste contamination exists. These samples will be analyzed for arsenic, barium, and selenium by atomic absorption techniques.

The following concentration levels will be used as guidelines to determine if clean-up is warranted:

Arsenic Beryllium 20 ppm Area background (typically 1-7 ppm) 20 ppm

Selenium

If the above concentrations are exceeded, the small container storage area will be washed with a commercial cleaner and Step 2 will be repeated.

If cleaning is required, an estimated five gallons of wash water will be generated. This wash water will be properly packaged and transported off site for treatment.

#### 21.0 STORAGE VESSELS

## 21.1 CONCENTRATED WASTE STORAGE TANK

The concentrated waste storage tank has a capacity of 6,000 gallons, is constructed of lined steel, and is contained below grade within a concrete vault. This tank, which is 8 feet in diameter by 16.75 feet long, has an epoxy interior lining that resists the waste materials and has an exterior protection coating. The connections to the tank include:

Feed pipe (to pouring station)
Drain connection from drum storage pad (normally valved shut)
Vent pipe
Sounding pipe
Suction connection

A piping diagram is shown in Figure 21-1.

The tank vault is constructed of concrete, has inside dimensions of 11 feet by 21 feet by 12.5 feet deep, and has a wall thickness of 14 inches. The tank is situated on a reinforced concrete slab that has a thickness of 2 feet. The vault has both an internal and external coating and is equipped with a manual sump pump and a ventilation system.

A steel grating is located above the tank at the top of the vault. A wood-framed asphalt-shingled roof covers the concentrated waste storage tank and vault system. This design permits visual inspection of the tank and vault system.

Since the waste is manually poured into the tank, the operator is aware of the possibility of overfilling. This is further discussed in Section 10.0 - Special Handling.

#### 21.2 CONTAINERS

Container storage at the Holmdel facility is limited to the drum storage area and the small container storage area.

The drum storage area is comprised of a 14.2-foot by 39.5-foot concrete pad with 6-inch-high curbing on three sides. The pad slopes from the noncurbed side toward a collection drain. This collection drain is normally open to the tank in order to retain waste that may leak from the drums. The drain can also be open to a nearby stream in order to remove accumulated precipitation and run-off from the concrete pad. In the event of a spill, the waste can be identified by the drum from which it came. The concrete pad is shown in Drawing 1.

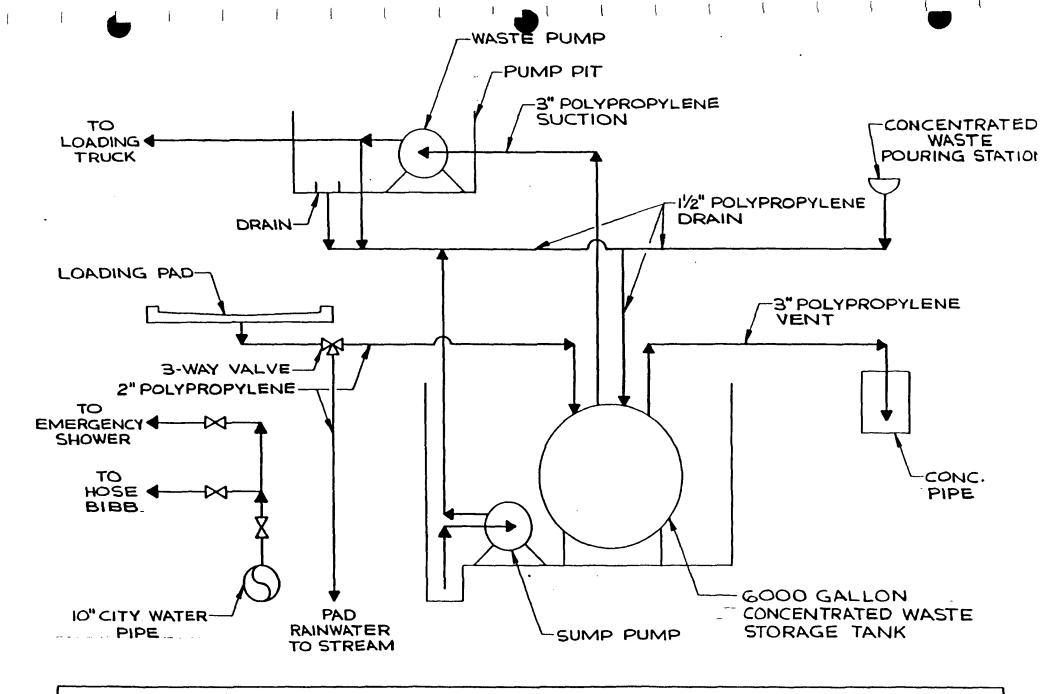
The approximate capacity of the curbed area is 2,100 gallons, 220 percent of the maximum expected drum volume of 950 gallons. The drums are stored on pallets to prevent them from contacting standing liquids in the curbed area.

The containers stored in the small container storage area are comprised mostly of small bottles. They are stored in one of two masonry block rooms or in the flammable storage cabinet. Each storage device has a reservoir at the bottom to contain spilled waste. The capacities of the reservoirs in the cinder block rooms are 40 and 42 gallons. The capacity of the reservoir in the flammable storage cabinet is approximately 15 gallons. The estimated maximum volume of waste to be stored in the entire small container storage area is 25 gallons. The bottles are stored on shelves to prevent them from contacting any spilled liquid.

The three storage devices in the small container area allow incompatible wastes to be segregated so that they do not come into contact during a spill.

If a spill occurs, the waste can be identified by the bottle that it came from. If more than one bottle is leaking, a sample can be taken from the reservoir and the waste can be removed from the reservoir and containerized.

(CAA41/24)



CDM

environmental engineers, scientists, planners & management consultants

AT+T BELL LABORATORIES
HOLMDEL FACILITY

FIGURE 21-1

PIPING DIAGRAM

## 22.0 WASTE MINIMIZATION REQUIRED BY HAZARDOUS SOLID WASTE AMENDMENTS OF 1984

# NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT RAZARDOUS WASTE MINIMIZATION SURVEY

#### HAZARDOUS WASTE GENERATOR WASTE REDUCTION PROGRAM, FY 1985

- Please complete both sides -

Company:	Incorporated				NJD011328887			
	(Name)			(EPA ID Number)				
Mailing	Address:	Rm. 1E-229	, 600 Mountai	n Ave., 1	Murray H	ill,	NJ 07974	
		(Street)		(City)		(Zip Code)		
Location	of Gene		rawford Corne f different from			ŊJ	07733	
Contact	Person:		zkowski, P.Æ.	•	(201) 58	2-486	8	
	•	(Name)	18). 40			Envi	ronmental partment	
	•	(Signature)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	(1	(itle)		<del></del>	

Please provide information about your company's hazardous waste minimization program. (If more space is needed, please answer on a separate sheet of paper and attach it to the questionnaire.)

#### 1. Separation

Is your company's waste collection system designed to decrease the volume of hazardous waste by keeping hazardous waste separate from non-hazardous waste?

Yes

No

If yes, has the system been improved in the past year to further reduce the amount of hazardous waste?

Yes

No

What reduction in volume was achieved in the last year?

#### 2. Substitution

Has your company substituted a hazardous material with a non-hazardous or less hazardous material to reduce either the amount or toxicity of hazardous waste generated by your operation?

Yes

If yes, when was the substitute introduced, and to what extent has it reduced the toxicity or amount of hazardous waste generated in the last year?

## 3. Efficiency

Has your company improved the efficiency of operations so as to reduce the amount of hazardous waste generated?

Yes

No

If yes, please describe it briefly and state when it was instituted.

A list of revised waste disposal practices was under development in 198

What amount of waste reduction was achieved in the last year?

An accurate assessment of the effects of these revisions will not be possible before 1986.

### 4. Recycling on-site

Does your company's waste reduction program include a hazardous waste recycling operation on-site?

Yes

If yes, please briefly describe the recycling operation and state when it was instituted.

What amount of waste reduction was achieved in the last year?

### 5. Treatment on-site

Does your company's hazardous waste reduction program include on-site waste treatment which minimizes the toxicity or amount of hazardous waste generated?

Yes

If yes, please briefly describe the treatment operation and state when it was instituted.

To what extent has the treatment operation reduced toxicity or reduced the amount of hazardous waste generated in the past year?

## Information Regarding Potential Hazardous Waste and Hazardous Waste Constituent Releases From Solid Waste Management Units

facility Name:	AT&T Bell Laboratories - Holmdel
EPA I.D. No.:	NJD011328887
Location: Street	Crawfords Corner Road
City & State	Holmdel, NJ
Check: owner	x operator x

Please review the following definitions prior to proceeding to page 2.

- I. Under the Resource Conservation and Recovery Act (RCRA) amendments of 1984, the term "solid waste" means any garbage, refuse, sludge, from a waste treatment plant, water supply treatment plant, or air poliution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities, but does not include solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, or byproduct material as defined by the Atomic Energy Act of 1954.
- II. A hazardous waste is a solid waste that is either listed in 40 CFR; Part 261; Subpart D ("List of Hazardous Wastes") or possesses one or more of the characteristics identified in 40 CFR; Part 261; Subpart C ("Characteristics of Hazardous Waste") and is not excluded in 40 CFR 261.4.
- III. A Hazardous Waste Constituent represents the basis for a specific hazardous waste being listed in 40 CFR; Part 261; Subpart D. The Hazardous Waste Constituents are listed in 40 CFR; Part 261; Appendix VIII (Hazardous Waste Constituents).
  - IV. The term "solid waste management unit" (SMMU) applies to any landfill, surface impoundment, land farm, waste pile, incinerator, tank, injection well, transfer station, waste recycling operation, tank or container storage area that currently or formerly was used to manage a solid waste.
    - V. Under the requirements of the Hazardous and Solid Waste Act Amendments of 1984, Section 3004U of the RCRA amendments mandates that EPA address contamination caused by prior releases of hazardous wastes and hazardous waste constituents from solid waste management units, regardless of the time when the waste was placed in the unit or when the unit was closed.
  - VI. The term "tank" includes wastewater treatment units, elementary neutralization units and short-term accumulation units that are exempted from RCRA permit requirements.
- VII. The term "release" includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing into the environment, but excluding releases otherwise permitted under law (e.g., NPDES permitted discharges).

## SPECIFIC INFORMATION

Are there	any of the following solid waste management units existing
or closed	at your facility? Include any units you are sware of that
mere mean	by previous owners. Do not include hazardous uneto unite
currently	shown in your 2 application.

	Yes	No
* Iandfill		
* Surface Impoundment	4	
* Dump-pit or Leach Field	distribution .	-
* Land Farm	-	
* Waste Pile	distribution.	~
* Incinerator	<del></del>	-
* Storage Tank (above ground)	*****	
* Storage Tank (below ground)	X	
* Container Storage Area		
Injection Wells, Eink Holes	Contraction to	-
Wastewater Treatment Units	-	-
* Transfer Stations		
Maste Recycling Operations		-
* Other (specify)	******	-
amer (sheavr);	-	

(For items 2-4, if the space provided is not sufficient, use additional sheets as necessary and specify the item being answered.)

- 2.) If there are "Yes" answers to any of the items in number one above, please provide the following:
  - A. A description of the wastes that were stored, treated or disposed of in each unit.

The tank was taken out of service in September, 1971.
Prior to that it was used to store spent stripping
and cleaning bath solutions from electroplating
operations.

B. Determine, as best you can, if the particular waste would be considered a hazardous waste or hazardous waste constituent under RCRA (See definitions on page one)

Yes, most likely F007, spent cyanide plating bath solutions, or F009, spent strippers and cleaning bath solutions from electroplating operations where cyanides were used.

С	<ul> <li>A description of each unit including its capacity, dimensions, period of operation, location at facility including a site plan if available.</li> </ul>
	Capacity: 5,000 gallon steel underground storage tar
	Period of Operation: It was in use between 1964 and
	1971.
	Location: Northeast of service building.
unit foll	each unit noted in number one and <u>also</u> those hazardous waste s identified in your Part B application, please provide the owing information on any prior or current release of hazardous e or hazardous waste constituents.
	source of information that has led to the possibility that a release has occured (i.e. discoloration of surrounding soil) date(s) of release groundwater monitoring data for units not identified in your Part B type of waste/material released quantity or volume of waste/material released
	nature of release (i.e., spill, overflow, ruptured tank or pipeline, leachate from landfill or surface impoundment, etc.)

	resulting groundwater inflow into the feed piping
,	system manholes.
plea avai ment addi or h wate	regard to the prior releases described in number three above, ase provide (for each unit) any analytical data that may be lable which would describe the nature and/or extent of environal contamination that exists as a result of such releases. Ition, any information on the concentration of hazardous waste azardous waste constituents present in contaminated soil, great or surface water should be attached. Include any information
Stat toxi abov	
The	re was no sampling or analytical work done in regard
wate woul wast	ou do not have any record of a SAMO on your site, is there are sence from soil borings, drilling of groundwater wells, ground a monitoring results, exploratory pits or any excavations the discovery of a SAMO or that a release of hazardese or hazardous waste constituent has occured (Please describes of activity and observations that led to the discovery)?
N/A	

#### 1.0 SAMPLING AND ANALYSIS PLAN OVERVIEW

## 1.1 INTRODUCTION

This proposed sampling and analysis plan for the AT&T BELL Laboratories, Holmdel facility, located in Monmouth County, has been prepared in order to fulfill the requirements of the Resource Conservation and Recovery Act (RCRA), Part B permit application.

This plan has been prepared based on current information presented in the permit application, other background data and site visits. It addresses areas of the facility where transfer and storage operations of hazardous wastes could potentially cause contamination of surficial soils throughout the site.

The sampling and analysis program presented herein is designed to monitor exposed earthen sufraces in the immediate areas where hazardous wastes are transferred and stored, as well as solid sedimentation accumulations in on-site drainage systems which are subject to possible contamination by hazardous waste residues and constituents. The initial chemical analysis will be performed by a state certified laboratory and will serve to establish background levels of contaminants in surface soil. This sampling plan will also be performed on an annual basis.

## 1.2 SCOPE OF WORK

The sampling and analysis plan presented herein entails the following:

- O Collect soil samples at the surface (0-6") beneath the waste pouring station, adjacent to the tank pump-out pit and from the drainage ditch near the drum storage pad.
- o Collect a sediment sample from the catch basin situated in the drum storage area.

This sampling plan will culminate in a summary letter which will present the results and conclusions of the sampling and analysis plan. The letter will make recommendations for additional sampling (if contamination exists) and will provide the basis for proposing a course of action as part of a cleanup plan, if one is required. If contamination is not significant, background levels for further action will be developed and used for annual sampling results comparison.

#### 1.3 SITE DESCRIPTION

The Holmdel facility of AT&T Bell Laboratories is located at Crawford Corners Road in Holmdel Township, Monmouth County, New Jersey. The facility consists of a large main building surrounded by several small buildings situated on approximately 500 acres. The facility consists of laboratories and offices employing approximately 8,000 employees who perform communications-related research.

The hazardous waste facilities at the Holmdel facility are situated at two locations on the site:

- A 6,000-gallon concentrated waste storage tank is constructed of lined steel and located below grade within a concrete vault.
   Adjacent to this tank is a diked concrete slab where the liquid waste in drums is stored.
- 2. A small container storage area is located within the laboratory of a wastewater treatment facility; the area consists of two masonry block rooms and one flammable liquid storage cabinet.

## 1.4 SAMPLING LOCATIONS AND ANALYSES

Figure 2 indicates proposed sampling locations. This plan addresses sampling of surficial soil beneath the waste pouring station, adjacent to the waste tank pump-out pit, and from a drainage ditch located near the drum storage pad. These locations represent the most likely areas that would be contaminated during the transfer of hazardous substances in the event of minor spillage or dripping.

Sampling of soils will consist of collection of surficial samples (0-6") at one location for each point of concern. One sediment sample will also be collected from the catch basin in the drum storage area. Analysis of all samples will consist of priority pollutant metals, the volatile organic fraction of the priority pollutant scan plus 15 peaks and petroleum hydrocarbons.

Table A-1 summarizes the soil and sediment sampling locations and analyses. Table A-2 lists the number of samples and analytical methods that will be utilized. Table A-3 lists the sample containers for the particular analyses and the preservation requirements.

REFERENCE NO. 15

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## State of New Bersey

## DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Treis, Ph.D., Acting Director CN 028 Trenton, N.J. 08625 609 - 292 - 1250

Paul E. Wyszkowski, P.E.
Manager, Environmental Management Department
AT & T Bell Laboratories
600 Mountain Avenue
Murray Hill, New Jersey 07974

16 DEC 1986

Dear Mr. Wyszkowski:

Re: Part B Permit Application for AT & T Bell Laboratories, Holmdel, Monmouth County, EPA ID No. NJD 011 328 887.

This is to advise you that the Department has completed the administrative review of your application for operation of a hazardous waste storage facility and has determined that it is in substantial compliance with the requirements of N.J.A.C. 7:26-1 et seq.

As part of the complete review process, copies of your application must also be sent to other State agencies, USEPA, and Municipal bodies for their technical review and comments. Therefore, you are hereby requested to submit nine (9) additional copies of your complete application to this Bureau of Hazardous Waste Engineering (BHWE) who will transmit them to the interested parties mentioned above. In future correspondence with you, the BHWE, as lead agency in your application review, will also address any concerns cited by other parties, in addition to any technical deficiencies that the BHWE might uncover:

The Bureau proposes the following time frames for processing your facility's application and final decision for the issuance of a permit:

- 1. Conduct technical review and issue notice of deficiency after receipt of administratively complete application within 90 days.
- 2. Determine technical completeness after receipt of all necessary information within 30 days.
- 3. Complete draft permit, fact sheet and public notice or application denial after technical completeness determination within 90 days.
- 4. Issue final permit within 75 days, if a public hearing is held within 150 days.

This is to be used as a guidance document only. The time frames are based upon previous records but may require adjustments based on future experience.

The acceptance of this application and supporting documents for review shall not be construed as an approval of the engineering design or the completeness thereof, nor does it sanction the start-up of new operations.

By the acceptance of this application, the applicant is notified that the Division of Hazardous Waste Management has unrestricted right of entry. Any refusal by the applicant will be an automatic denial of their application.

The above requested copies of your application shall be submitted to this Bureau within twenty (20) days of the date of this letter.

If you have any questions on these matters, please contact Bob Patel of my staff at (609) 633-0736.

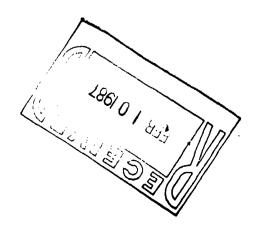
Very truly yours,

Ement & Kullweing.

Ernest J. Kuhlwein, Jr., Acting Chief Bureau of Hazardous Waste Engineering

EP9/vb

c: Angel Chang, USEPA



REFERENCE NO. 16

13-18-05





DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
401 East State St.
CN 028

Trenton, N.J. 08625 609 - 633 - 1408

Paul E. Wyszkowski, P.E. Group Supervisor Environmental Management Group AT&T Bell Laboratories 600 Mountain Avenue Murray Hill, N.J. 07974

2 2 MAY 1987

Dear Mr. Wyszkowski:

RE: Technical Deficiencies in Part B Application for AT&T Bell Laboratories (Holmdel Site), Holmdel, Monmouth County, EPA ID No. NJD 011 328 887

Your application for the referenced hazardous waste storage facility has been reviewed by the Division of Hazardous Waste Management and all appropriate outside agencies for compliance with all applicable regulations of the New Jersey Department of Environmental Protection and the requirements of the New Jersey Hazardous Waste Regulations. It has been determined that the application is deficient in several areas and additional information will be required to make the application technically complete. The deficient items are noted and explained in the attached comment sheet.

The information requested in this letter should be submitted to this Bureau within 30 days of the date of this letter. Applicable sections requiring revision shall be supplied in triplicate, otherwise discussions and clarifications need only to be provided in the transmittal letter. Technical and engineering data should be signed and sealed by a New Jersey Registered Professional Engineer. Failure to submit a timely and complete response could be cause for enforcement action and the initiation of denial procedures.

In the future, the Division may request additional information from the applicant to satisfy application requirements as necessary.

If you have any questions regarding these matters, please contact Bob Patel of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr., Acting Chief Bureau of Hazardous Waste Engineering

EP9/sg

c: Lori Amato, USEPA, Region II Denise K. Bear, BEMQA

#### COMMENT SHEET

Facility Name: AT&T Bell Laboratories

EPA ID Number: NJD 011 328 887

- 1. Provide a revised page 3 of the Part A application to include the following:
  - a. Delete X850 for Packed Laboratory Chemicals because the Waste ID Number refers to packed laboratory chemicals in over pack containers and it does not refer to the storage of small containers in a cabinet or otherwise awaiting placement in an overpack drum.
  - b. Change X386 to C386 for Polychlorinated biphenyl, N.O.S. since the Waste ID Number is adopted and listed under the "c" codes in N.J.A.C. 7:26-8.16.
  - c. List, by using appropriate "U" and "P" codes of N.J.A.C. 7:26-8.15, all raw chemicals to be stored as unwanted chemicals in the small container storage area.
  - d. List, by using appropriate "U" codes of N.J.A.C. 7:26-8.15, spent solvents to be stored in the tank.
- 2. Provide the following information in tabular form:
  - a. List Hazardous Waste Numbers and appropriate descriptions of wastes to be stored in tank;
  - List Hazardous Waste Numbers and appropriate descriptions of wastes to be stored in 55 gallon containers; and
  - c. List Hazardous Waste Numbers and appropriate descriptions of wastes to be stored in small containers.
- 3. Provide a detailed chemical and physical analysis of each hazardous waste code to be stored at the facility, as well as all information which must be known to store each waste properly in accordance with N.J.A.C. 7:26-9 and N.J.A.C. 7:26-10.
- 4. Provide information covering the types and sizes of small containers containing hazardous waste to be stored in the small container storage area.
- 5. Provide a detailed specification of each hazardous waste species under ID No. D003 (reactive waste) to be stored in the small container area at the facility.
- 6. Provide the maximum numbers and capacities of small containers to be stored in each storage room and storage cabinet to verify the adequacy of the reported secondary containment volume capacity of each reservoir.

- 7. Provide a detailed description of the design specification for the concentrated waste pouring station as well as a detailed description of the operating procedure for the control valve to be used for removal of accumulated spills, leakage, or accumulated precipitation from the diked area.
- 8. Identify the scheme and method to separate containers of incompatible wastes in the three storage devices in the small container storage area.
- 9. Provide a detailed description of the testing method and equipment to be used for measurements of tank wall thickness pursuant to N.J.A.C. 7:26-10.5(b)2. This information will be reviewed by the Department to verify the 5/16 inch tank wall thickness reported in the additional information submittal by the company on December 3, 1986.
- 10. Please note that the Department's Bureau of Environmental Measurements of Quality Assurance has not completed review of your company's waste analysis plan. Therefore, the Bureau of Hazardous Waste Engineering will request AT&T Bell Laboratories to provide additional information, if necessary, to correct any deficiency in the waste analysis plan in the near future. Such additional information will be subject to further review and approval by the Department.
- 11. Specify the maximum number of 55 gallon drums to be stored in the container storage area. The maximum drum volume in gallons must be a multiple of 55 gallons.
- 12. Provide a revised soil sampling and analysis plan to include the following items:
  - a) The plan should provide that if any visibly stained areas are encountered, they will be sampled independently of and in addition to the planned four samples;
  - b) The plan must indicate the rationale for selection of sample parameters;
  - c) The plan must include the use of a soil coring device or Ponar dredge for wet sediment sample collection. The use of a trowel is unacceptable;
  - d) The plan for decontamination of the dedicated stainless steel trowels should include laboratory cleaned and wrapped autoclaved aluminum foil;
  - e) Inner disposable gloves should be utilized for sample collection and must be changed between each sample location;
  - f) The travel blank should be originated from the laboratory in order to monitor possible contamination of sample containers;
  - g) The plan must include the use of laboratory provided analyte-free water for collection of the field blank; and

- h) AT&T Bell Laboratories must notify the Department at least two (2) weeks prior to initiation of sampling to arrange to have an auditor present, by calling Denise K. Bear of the Environmental Measurements Section at (609) 984-1693 or Bob Patel of the Bureau of Hazardous Waste Engineering at (609) 292-9880.
- 13. Provide a revised closure Cost Estimate to include the following items:

The Closure Cost Estimate must be based on the Rules and Regulations of the Federal Register, Vol. 51, No. 85 dated Friday, May 2, 1986, that states the Closure Cost Estimate must be based on the costs to the owner or operator of hiring a third party to close the facility. A third party is a party who is neither a parent nor a subsidiary of the owner or operator.

#### a) Labor Costs

- l) Labor costs must be based on eight (8) hour day (during daylight hours) and include costs for general labor as well as costs for the supervision of labor and activities necessary for a through closure.
- Labor costs must be listed and comply with the State of New Jersey, Department of Labor Prevailing Wage Determination of May, 1986.

A request for determination for specific descriptions of work may be obtained by writing to:

Public Contracts Section Office of Wage and Hour Compliance New Jersey Department of Labor Trenton, N.J. 08625-0389

Note: New Jersey Department of Labor, Prevailing wage
Rate Determination for Mommouth County notes that
Toxic or Hazardous Wastes Laborers receive three
dollars (\$3.00) per hour over their regular
applicable hourly wage rate.

#### b) Equipment and Supplies

- l) Material costs must be detailed on the Closure Cost Estimate to help ensure that sufficient information is included.
- 2) Costs for heavy equipment (e.g. vacuum trucks, fork lifts, etc.) together with their fuel, maintenance, operator and decontamination costs must be supplied and detailed on the Closure Cost Estimate.

#### c) Disposal

1) The Closure Cost Estimate must show a disposal cost of Thirteen Thousand Dollars (\$13,000.00) including

transportation as the cost to dispose of Six Thousand (6,000) gallons of waste solvent using the Solvent Recovery Processing Method of disposal for the waste liquid storage tank.

- 2) The Closure Cost Estimate must show a disposal cost of Two Thousand Four Hundred Eighty Nine Dollars (\$2,489.00) including transportation as the cost to dispose of Nineteen (19) drums in the Drum Storage Area using the Solvent Recovery Processing Method of disposal.
- 3) The Closure Cost Estimate must show a disposal cost of Three Hundred Fifty Dollars (\$350.00) including transportation as the cost to dispose of approximately Two (2) drums containing lab packs in the Small Container Storage Area.
- 4) Standard practice shows that ten percent (10%) of the total maximum capacity of all tanks listed in the Closure Cost Estimate must be the amount of waste wash waters disposal of during decontamination. Your revised Closure Cost Estimate must show a cost of Five Hundred Sixty Three Dollars (\$563.00) including transportation for the disposal of waste wash waters guerated decontamination.

#### d) Additional Closure losts

- 1) Costs for sam ling and analysis of waste, solid, etc. as well as the waste wash waters must be included in your revised Closure Cost istimate and the analysis must be completed by an independent State of New Jersey certified testing laboratory.
- 2) Contingency costs of 20% must be included in the Closure cost Estimate to cover the unanticipated spills, adverse weather conditions, etc. encountered during closure.
- 3) Administrative costs of 10% must be included in the Closure Cost Estimate to cover the costs of bookkeeping, taxes, etc.
- e) All other itemized costs listed in subject company's Closure Cost Estimate must remain and be incorporated in your next Closure Cost Estimate submittal.

EP9/sg

REFERENCE NO. 17

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## State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam Deputy Director

Hazardous Waste Operations

John J. Trela, Ph.D., Director 401 East State St. CN 028 Trenton, N.J. 08625 (609)633-1408 Lance R. Miller Deputy Director

Responsible Party Remedial Action

Paul E. Wyszkowski, P.E. Group Supervisor Environmental Management Group AT&T Bell Laboratories 600 Mountain Avenue Murray Hill, NJ 07974 JUN 0 8 1988

Dear Mr. Wyszkowski:

RE: Technical Completeness of Part B Permit Application for AT&T Bell Laboratories (Holmdel Site), Holmdel, Monmouth County, EPA ID NO. NJD 011 328 887

The Bureau of Hazardous Waste Engineering (the "Bureau") acknowledges receipt of your August 27, 1987 response to the Bureau's May 22, 1987 Notice of Deficiency.

After review of the additional information submitted by AT&T Bell Laboratories, the Bureau has concluded that the Part B permit application for the referenced facility can be considered technically complete.

As part of the permit issuance procedure, a draft permit, fact sheet and public notice are being prepared by the Bureau.

AT&T Bell Laboratories will be informed at a later date if any additional information is required for the Part B application to complete the preparation of the draft permit.

If you have any questions concerning this matter, please contact Bob Patel at (609) 292-9880.

Very truly yours

Ernest J. Kuhlwein, Jr., Chief

Bureau of Hazardous Waste Engineering

EP9/slw

C: Barry Tornick, USEPA Vince Krisak, Bureau of Field Operations Milton Polakovic, Bureau of Technology and Engineering Barry Chalofsky, Division of Water Resources Honorable Frank Tricarico, Mayor, Township of Holmdel Lawrence Zaayenga, Solid Waste Coordinator - Monmouth County Planning Board Robert Berg, Bureau of Ground Water Quality Management

DOCUMENT: AT&T3
FOLDER: SLWMCB

REFERENCE NO. 18

# DIVISIO OF HAZARDOUS WASTE MANAGE: T HAZAR\_JUS WASTE INSPECTION REPORT

DWM-029

## HAZARDOUS WASTE MANAGEMENT FACILITY INSPECTION REPORT

#### FACILITY INFORMATION

FACILITY NAME: ATET BOTT Labs.
FILE NUMBER:
VHT FACILITY FILE NUMBER:
PERMIT #:
REGION:
INSPECTION DATE: 08-18-88
INCIDENT/CASE NUMBER:
INSPECTION TYPE: G TSD RCRA
RESPONSIBLE AGENCY CODE:
INSPECTOR'S NAME: Peter Maruhnic
INSPECTOR'S AGENCY: DEP
INSPECTOR'S BUREAU: Field operations
EPA ID NUMBER: NJ DO 1132 8887
ADDRESS: Crawfords Corner Rd
Holmdel NJ 07733
LOT: 38 BLOCK: 11
COUNTY: Monmouth
FACILITY PERSONNEL: Edward Nowak Env. Mns. Sp.
TELEPHONE #: (201) 564-2645
OTHER STATE/EPA PERSONNEL:
REPORT PREPARED BY: Leter Maryhnic
REVIEWED BY: Zinde Z gorde
DATE OF REVIEW: 9-37-11

REVISION: 3 01/88

PHOTOS TAKEN:	( <u>    )</u> YES	( <u>/</u> ) NO		
SAMPLE TAKEN:	() YES	( <u>)</u> NO		·
If yes, how ma	ny?			
NO. OF SAMPLES:		NJDEP ID #:		
MANIFESTS REVIEWED:	(YES	( <u>    )</u> NO		
Number of Mani	fests in C	ompliance:	A77	
Number of Mani	fests Not	in Compliance:	None	
List Manifest	Document N	umbers of Those Ma	inifests Not in	Compliance:

:

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FACILITY DESCRIPTION AND OPERATIONS

The present modern building of AT&T Bell Tabr at Cranfords Corner Rd in Holmdel was first occupied in 1962. It has three storier over one million square feet of floor space and between six and seven thousand workers. They seem ther facility in the largest of it's bind in the world. Their only activity is applied research and development in the area of telecommunications. they work on developing micro chips, crystal, sprinted circuits and computer software. Their Draft Permit is up for Public Comment beginning august 21, 1988 and ending Oct 6,1988. Public Hearing will be held at 1900 hrs Dept 21, 1988. Impection of the waste storage area showed that ATET is in compliance with conditions of the droft permit with respect to the 6000 gal voulted tout, dum storage area and cobinets housing small containers. The permit silour receiving and storing small containers on- site from company-owned off-site locations which are small quantity generators. They transport these waster using their own vehicle and have a Solid Waste Kernet NO. NJSW 12.11 AA. No hozordown waster are disposed of on site.

Describe the acti- lies that result in the generation of hazardous waste.
Hazzedour waster are generated from communica
related research and development activities.
Rine water and other aqueous hazerdown
waster are stored in one vaulted 6000 gal
the mes and ment alcourte are stored in
thenner and spirit solvents are stored in
55 gellon grums, Small rontainers of lab
waster are stored in steel colinets.
1500 gal in 6,000 gal tonk (Last emptied 10-23-85) Rive water, other mixed aqueous waster x 900
2x55 gel drums Mixed solvents F001
1 x 55 gal drum Flammable ligisid Dool
1 x 55 gal dum Flammable ligjend F003
3 x 55 gal drums Coironne Douz
6 x 55 grk container Waste ammonium hydroxide DOO2

## MANIFESTS

7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient on G-1).		 
7:26-7.4(a)4i	The generator's name, address and phone number.	<u> </u>	 
7:26-7.4(a)4ii	The generator's EPA ID number.		 
7:26-7.4(a)4iii	The hauler(s) name, address phone number and NJ registration.	<u>~</u>	 
7:26-7.4(a)4iv	The hauler(s) EPA ID number.		 
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility.	<u>/</u>	 
7:26-7.4(a)4vi	The TSF's EPA ID number.	<u>/</u>	 
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility.	<u> </u>	 
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	<u> </u>	 
7:26-7.4(a)4v111	Special handling instructions and any other information required on the form to be shipped by generator?	<u> </u>	 

		YES	<u>NO</u>	$\frac{N/A}{}$	
7:26-7.4(3)	Did the generator describe all N.O.S. wastes in Section J?	<u>~</u>	_		
7:26-7.4(a)ix	When shipping hazardous waste to a waste reuse facility does the generator enter the waste reuse facility I.D. # in the section G of the Uniform Manifest?		_		<u> </u>
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:				
7:26-7.4(a)5i	Sign the manifest certification by hand?	~	_		
7:26-7.4(a)511	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	<u>`</u>	_		
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?	<u>~</u>	_		
7:26-7.4(a)5iv	Provide the required numbers of copies for: generator, each hauler, owner/operator of the designated facility, as well as one copy raturned to the generator by the facility owner/operator?		<u>/</u>		
7:26-7.4(a)5v	Give the remaining copies of the manifest form to the hauler?	~	_	<del></del>	
7.26-7.4(f)	Has the generator maintained facility records for three (3) years? (Manifest(s), exception report(s) and waste analysis)	<u>~</u>	<u>/</u>		
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	v	<u>/</u>		
7:26-7.4(h)1	If not: Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at (609) 292-8341 to inform the NJDE of the situation?	P			<u>√</u>
7:26-7.4(h)2	Have exception reports been submitted to the Department covering any of these shipments made more than 45 days ago?	d 			<u>/</u>

7:26-9.4(b)	Waste Analysis	
7:26-9.4(b)l1	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis most contain all the information necessary for proper treatment storage or disposal of the waste).	<u>/</u>
7:26-9.4(b)liii	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one:	
	Waste characteristics vary: All waste(s) are basically the same: Company treats all waste(s) as hazardous:	
7:26-9.4(b)2	Is there a written waste analysis plan at the facility?	<u> </u>
	Does it contain:	
7:26-9.4(2)1	Parameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters?	<u> </u>
7:26-9.4(b)211	The test methods which will be used to test for these parameters?	<u> </u>
7:26-9.4(b)2iii	The sampling method which will be used to obtain a representative sample of the waste to be analyzed?	<u>/</u>
7:26-9.4(b)2 <b>iv</b>	The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date?	<u> </u>
7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?	<u>/</u>
7:26-9.4(b)2vii	Procedures which will be used to identify changes in waste stream characteristics?	<u>/</u>
	Does hazardous waste come to this facility from an outside source? (e.g., another generator).	<u>/</u>
	If yes, list the name(s) of generators.	
	From company-owned loca	f100 S

7:26-9.4(ъ)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?	MANIFEST of required
	Does the plan describe:	
7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?	
7:26-9.4(b)411	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?	
7:26-9.4(c)1	Did the facility accept hazardous waste which it is not authorized to handle?	
7:26-9.4(1)	Are all records and results of waste analysis performed pursuant to NJAC 7:26-9.4(b) and 9.4(e) as applicable written in the operating log?	
7:7:26-9.4(h)	Security	
	Does the facility have:	
7:26-9.4(h)li	A 24 hour surveillance system which continuously monitors and controls entry onto the active portion of the facility?	<u>/</u>
7:26-9.4(h)lii	An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility?	<u> </u>
7:26-9.4(h)3	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?	<u> </u>
	If no, explain what measures are taken for security.	

7:26-9.4(f)	General Inspection Requirements	
7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:	
7:26-9.4(f)1i	Discharge of hazardous waste constituents to the environment?	<u>_</u>
7:26-9.4(f)lii	A threat to human health?	<u> </u>
7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?	<u>/</u>
7:26-9.4(f)31	Did the owner or operator submit the written inspection schedule to the department?  If yes, when was it submitted?	th Part B
7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?	<u> </u>
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	<u> </u>
7:26-9,4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	<u>/</u>
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have not been remedied?	
7:26-9.4(f)6	Does the owner/operator record inspections in a log?	<u> </u>

YES NO N/A

7:26-9.4(f)6	Are these records kept for at least	
	three (3) years from the date of inspection?	<u> </u>
7:26-9.4(f)6	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	<u> </u>
7:26-9,4(g)	Personnel Training	
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within six months of having been employed?	<u>/</u>
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	<u> </u>
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	<u> </u>
	Is there written documentation of the following:	
7:26-9.4(g)61	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	<u>/</u>
7:26-9.4(g)611	A written job description for each position related to hazardous waste management?	<u> </u>
7:26-9.4(g)6111	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u>/</u>
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	<u> </u>

7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for three years from their last date of employment?	<u>/</u>
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?	<u>/</u>
7:26-9.6	Preparedness and Prevention	
	Does the facility comply with preparedness and prevention requirements including maintaining:	
7:26-9.6(b)1	An internal communications or alarm system?	<u>/</u>
7:26-9.6(6)2	A telephone or other device to summon emergency assistance from local authorities?	<u>/</u>
7:26-9.6(5)3	Portable fire equipment, spill control equipment, and decontamination equipment?	<u> </u>
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	<u>/</u>
7:26-9.6(c)	Is equipment tested and maintained?	
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazardous waste?	<u> </u>
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	<u> </u>

If no, please explain.

7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?	$\sqrt{}$		
7:26-9.7	Contingency Plan and Emergency Procedures			
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two inspections annually?	<u> </u>		
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	<u>/</u>	apin emerinja	<b>Quantization</b>
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	<u>/</u>		
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?	<u>/</u>		
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	<u>/</u>		
7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site?			
	Explain.			
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<u>/</u>		

	123	NO N/A
7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	<u> </u>
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	<u>/</u>
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with NJAC 7:1E-4.1 et seq.?  If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with	<u>/</u>
7:26-9.7(e)	the requirements of this section?  Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services?	<u> </u>
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates?	<u> </u>

7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:  1. Maintained at the facility; and  2. Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams)?	<u>/</u>
7:26-9.7(k)	Is there at least one employee on site or on call with the responsibility of coordinating all emergency response measures?	<u> </u>
7:26-9.8	Closure Plan	
7:26-9.8(c)	Does the facility have a written closure plan?	<u> </u>
	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	<u> </u>

If yes, does the plan include:

The integrity of the cap and final cover or other containment structures

Describe the function of the facility

where applicable?

monitoring equipment?

7:26-9.9(1)21

7:26-9.9(1)211

7	:	26	-9	Э.	9	(i	):	3
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Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?

Does the owner/operator have a written estimate of the cost of post-closure for the facility?

If yes, what is it?

If no, explain.

Please circle all appropriate activities and answer questions in appropriate sections all activities circled.

Storage	Treatment	Disposal
Container	Tank -	Landfill
Tank, Above Ground	Surface Impoundments	
Tank, Below Ground	Incineration	Surface Impoundments
Surface Impoundment	s Thermal Treatment	Other
Waste Piles		
Other	Chemical, Physical and	Biological Treatment
Other		
7:26-9.4(d)	Containers	
	What type of containers are us storage? Describe the size, to quantity and nature of wastes 12 fifty-five gallon drums of acetone).	(e.g., See page 2
7:26-9.4(d)li	Do the containers appear to be sturdy leakproof construction adequate wall thickness, weld, and seam strength, and of suff material strength to withstand bottom shock, while filled, wi impairment of the container's to contain hazardous waste?	of hinge ficient I side and thout

7:26-9.4(d)lii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	<u> </u>
	If no, explain.	
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	<u>/</u>
7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.	
7:26-9.4(d)5 12 17	Are hazardous wastes stored in containers made of compatible materials?	
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	<u> </u>
	If no, explain.	
7:26-9.4(d)4iii	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	<u> </u>
	If no, explain.	
7:26-9.4(d)41v	Are containerized hazardous wastes segregated in storage by waste type?	<u>/</u>
7:26-9.4(d)4v	Are containerized hazardous wastes arranged so that their identification label is visible?	<u>/</u>
7:26-9.4(d)5	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	<u>/</u>
7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	<u>/</u>

7:26-9.4(d)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		<u>/</u>	
	If yes, explain.			
7:26-9.4(d)711	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?	-	<u>/</u>	
	If yes, explain.			
7:26-9.4(d)7111	Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated from the other materials or protected from them by means of a dike, berm, wall or other device?	<u>/</u>		
7:26-9.4(e)li	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	<u>/</u>		_
	If no, explain.			
7:26-9.4(e)1ii	Does the owner/operator confine smoking and open flames to specially designated locations when ignitable or reactive wastes are being handled?	<u>/</u>	******	
	If no, explain.			
7:26-9.4(e)liii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?	<u>/</u>		
	If the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	<u>/</u>		<del></del>
7:26-9.4(e)211	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health.	_		

7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?
7:26-9.4(e)21v	Damage the structural integrity of the device or facility containing the waste?
7:26-9.4(e)2v	Threaten human health or the environment?
7:26-11.2	Tanks
	What are the approximate number and /x 6000 9a? size of tanks containing hazardous waste?
	Identify the waste treated stored  in each tank.  Aqueous solution  of EP toxic waste
	General Operating Requirements Confaining al-senic
7:26-11.2(a)2	Are hazardous wastes or treatment reagents placed in the tank that could Tank is teflou cause the tank or its inner liner to lined, rupture, leak or corrode?
	If yes, please explain.
	Are there leaking tanks?
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?
7:26-11.2(3)	Do uncovered tanks have at least two feet of freeboard or an adequate containment structure?
7:26-11.2(a)4	If waste is continuously fed into a Not needed tank, is the tank equipped with a means to stop the inflow from the tank, Tank handee.g., bypass system to a standby tank?
7:26-11.2(c)	Inspections
	Is the tank(s) inspected for:
	1. Discharge control equipment (each operating day).

Please specify the types of waste

stored and treated.

Lanuar 2

NO

		•		
•	YES	NO :	N/A	
7:26-11.3(a)	Is there at least two feet of freeboard in the impoundment?			
7:26-11.3(b)	Do all earthen dikes have a protective cover to preserve their structural integrity?	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	_	
	If yes, please specify the type of covering.			
7:26-9.4(c)1	Does the owner/operator have a detailed chemical and physical analysis of a representative sample of the waste in the impoundment?			
7:26-9.4(1)	Does the owner/operator place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility?			
7:26-11.3(d)	Does the owner or operator inspect:			
7:26-11.3(d)1	The freeboard level at least once each operating day to ensure compliance with subsection 11.3(a)?			
7:26-11.3(d)2	The surface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks, deterioration or failures in the impoundment?			-
7:26-11.3(f)	Is ignitable or reactive waste placed in the surface impoundment?			
7:26-11.3(f)1	If yes, is the waste treated, rendered, or mixed before or immediately after placement in the impoundment?	***************************************		

Does the resulting waste, mixture, or dissolution of material no longer meet the definition of ignitable or reactive

waste?

7:26-11.3(f)1i

7:26-11.3(f)111	Is the waste treated, rendered or mixed so that it does not:	
7:26-9.4(e)21	Generate extreme heat or pressure, fire or explosion, or violent reaction?	
7:26-9.4(e)211	Produce uncontrolled toxic mists, fumes, dusts, of gases in sufficient quantities to threaten human health?	
7:26-9.4(e)2111	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion?	
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	
7:26-9.4(e)2 <b>v</b>	Threaten human health or the environment?	
7:26-11.3(f)2	Is the surface impoundment used solely for emergencies?	
7:26-11.3(g)	Are incompatible wastes, or incompatible wastes and materials placed in the same surface impoundment?	
	If yes, is the waste managed so that it does not:	
7:26-9.4(e)21	Generate extreme heat or pressure, fire or explosion, or violent reaction?	
7:26-9.4(e)211	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	
7:26-9.4(e)2111	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	
7:26-9.4(e)2v	Threaten human health or the environment?	
7:26-11.4	Landfills V/A	
	Identify the types of waste and size of the landfill.	
	General Operating Requirements	
7:26-11.4(a)1	Is run-on diverted away from all portions of the landfill?	

	YES	NO N/A
7:26-11.4(a)2	Is runoff from active portions of the landfill collected?	
7:26-11.4(a)3	Is waste which is subject to wind dispersal controlled?	
	Please explain how.	
7:26-11.4(a)4	Does waste disposal or the disposal operation occur within 200 feet (60.6 meters) of the property boundary?	
7:26-11.4(a)6	Are untreated, ignitable, or reactive wastes placed in the landfill?	
	If yes, explain.	
7:26-11.4(a)7	Are incompatible wastes, or incompatible wastes and materials placed in the same hazardous waste landfill cell?	
	If yes, explain.	
7:26-11.4(a)8	Are bulk or non-containerized liquid waste or waste containing free liquids placed in a hazardous waste landfill?	
	If yes:	
7:26-11.4(a)8i	Does the hazardous waste landfill have a liner which is chemically and physically resistant to the added liquid and a functioning leachate collection and removal system with a capacity sufficient to remove all leachate produced?	
7:26-11.4(a)8ii	Before disposal, is the liquid waste or waste containing free liquids treated or stabilized, chemically or physically, so that free liquids are no longer present?	
7:26-11.4(a)9	Are containers holding liquid waste or waste containing free liquids placed in a hazardous waste landfill?	
	If yes:	
7:26-11.4(a)9i	Is the container designed to hold liquids or free liquids for a use other than storage, such as a battery?	

..... --

7:26-11.4(a)9ii	Is the container very small, such as an ampule?	 	
7:26-11.4(a)10	Are empty containers crushed flat, shredded, or similarly reduced in volume before it is buried beneath the surface of a hazardous waste landfill?	 	
7:26-11.4(a)11	Does the owner or operator of a hazardous waste landfill continue to dispose of hazardous wastes subsequent to the detection of any liquid, in the secondary collection system?	 	
7:26-11.4(b)	Does the owner or operator of a hazardous waste landfill maintain an operating record required in NJAC 7:26-9.4(i)?	 	
7:26-11.4(b)1	Does the owner/operator maintain a map, the exact location and dimensions, including depth of each cell with respect to permanently surveyed bench marks?		
7:26-11.4(b)2	The contents of each cell and the appropriate location of each hazardous waste type within each cell?	 	
	Are containers holding liquid waste or waste containing free liquids placed in the landfill?	 	
	Please describe the types and contents of such containers placed in the landfill.		
	Are empty containers placed in the landfill crushed flat, shredded or similarly reduced in volume before they are buried?	 	
	Are small containers of hazardous waste in overpacked drums placed in the landfill?	 	
	If yes, please describe precautions taken to prevent the release of the waste.		
7:26-11.5	Incinerator N/A		
	What type of incinerator is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).		

	Is the residue from the incinerator a hazardous waste?		 
	What types of air pollution control devices (if any) are installed in the incinerator unit?		
	Is energy recovered from the process?		 
	If yes, describe.		
	What is the destruction and removal efficiency for the organic hazardous waste constituents?		
7:26-11.5(b)1	Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:		
7:26-11.5(b)1 <u>1</u>	Heating value of the waste?		 
7:26-11.5(b) lii	Halogen and sulfur content?		 
7:26-11.5(b)liii	Concentrations of lead and mercury?		 
7:26-11.5(2)	If no to any of the above questions, is there justification and documentation?		 
	If operating, does it appear the incinerator is operating at steady state for conditions of operation, including temperature and air flow?		
	Monitoring and Inspection		
7:26-11.5(c)1	Are existing instruments relating to combustion and emission controls monitored every 15 minutes?		 
	If no, explain.		
7:26-11.5(c)1	Does the incinerator have all the following instruments for measuring: Wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Circle Missing Instruments).		 _
	If no, explain.		
7:26-11.5(c)2	Is the stack plume observed visually at least hourly for opacity and color?	<del></del>	 

Are all emergency shutdown controls and system slarms checked to assure proper operation?  Is there any reason to believe the incinerator is being operated improperly? i.e., steady state conditions are not maintained.  If yes, explain.  7:26-11.5(c)3 Is the incinerator inspected daily?  Thermal Treatment	7:26-11.5(c)3	Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc.?  If yes, describe.			
incinerator is being operated improperly? i.e., steady state conditions are not maintained.  If yes, explain.  7:26-11.5(c)3 Is the incinerator inspected daily?  7:26-11.6 Thermal Treatment V A What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).  List the types and quantities of hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1 Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11 Hesting value of the waste?  7:26-11.6(b)11 Halogen and sulfur content?	7:26-11.5(c)3	Are all emergency shutdown controls and system alarms checked to assure	****		
7:26-11.5(c)3  Is the incinerator inspected daily?  7:26-11.6  Thermal Treatment  What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).  List the types and quantities of hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11  Heating value of the waste?  7:26-11.6(b)111  Halogen and sulfur content?		incinerator is being operated improperly? i.e., steady state			
What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).  List the types and quantities of hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11  Heating value of the waste?		If yes, explain.			
What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).  List the types and quantities of hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)1i  Heating value of the waste?  Halogen and sulfur content?	7:26-11.5(c)3	Is the incinerator inspected daily?			
the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).  List the types and quantities of hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11  Heating value of the waste?  7:26-11.6(b)111  Halogen and sulfur content?	7:26-11.6	Thermal Treatment V A			
hazardous waste thermally treated.  Is the residue from the thermal treatment unit a hazardous waste?  What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11  Heating value of the waste?  7:26-11.6(b)111  Halogen and sulfur content?		the site (e.g., waterwall incinerator,			
What types of air pollution control devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)1i  Heating value of the waste?  7:26-11.6(b)1ii  Halogen and sulfur content?		· ·			
devices (if any) are installed in the thermal treatment unit?  Is energy recovered from the process?  If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)1i  Heating value of the waste?  7:26-11.6(b)1ii  Halogen and sulfur content?				-	
If yes, describe.  What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)1i  Heating value of the waste?  Halogen and sulfur content?		devices (if any) are installed in the			
What is the destruction and removal efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)1i  Heating value of the waste?  7:26-11.6(b)1ii  Halogen and sulfur content?		Is energy recovered from the process?			
efficiency for the organic hazardous waste constituents?  7:26-11.6(b)1  Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)11  Heating value of the waste?  7:26-11.6(b)111  Halogen and sulfur content?		If yes, describe.			
additional analysis and to determine types of pollutants which might be emitted including:  7:26-11.6(b)li Heating value of the waste?  7:26-11.6(b)lii Halogen and sulfur content?		efficiency for the organic hazardous			
7:26-11.6(b)lii Halogen and sulfur content?	7:26-11.6(Ъ)1	additional analysis and to determine types of pollutants which might be			
	7:26-11.6(b)1i	Heating value of the waste?			
7:26-11.6(b)1iii Concentrations of lead and mercury?	7:26-11.6(b)111	Halogen and sulfur content?			
	7:26-11.6(b)1111	Concentrations of lead and mercury?			

7:26-11.6(2)	If no to any of the above questions, is there justification and documentation?			
	If operating, does it appear the thermal treatment unit is operating at steady state for conditions of operation, including temperature and air flow?			
	Monitoring and Inspection			
	Are existing instruments relating to combustion and emission controls monitored every 15 minutes?			
	If no, explain.			
7:26-11.6(c)1	Does the thermal treatment have all the following instruments for measuring: Wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Circle Missing Instruments).			
	If no, explain.			
7:26-11.6(c)2	Is the stack plume observed visually at least hourly for opacity and color?	-	•	-
7:26-11.6(c)3	Are there any signs of leaks, spills and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
	If yes, describe.			
7:26-11.6(c)3	Are all emergency shutdown controls and system alarms checked to assure proper operation?	- specification	***********	
	Is there any reason to believe the thermal treatment unit is being operated improperly? i.e., steady state conditions are not maintained.			
	If yes, explain.			
7:26-11.6(c)3	Is the thermal treatment inspected daily?			
7:26-11.6(e)	Is there open burning of hazardous waste?			
	If yes, what is being burned? (Only burning or detonation of explosives is permitted).			

	explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?
7:26-11.7	Chemical, Physical and Biological Treatment
	(Other than in tanks, surface impoundments or plant treatment facilities).
	Describe the treatment system at this facility and the types of wastes treated.
7:26-11.7(a)2	Does the treatment process system show any signs or ruptures, leaks or corrosion?
	If yes, describe.
7:26-11.7(a)3	Is there a means to stop the inflow of continuously fed hazardous wastes?
	Inspections
7:26-11.7(c)1	Is the discharge control safety equipment (e.g., waste feed cut-off systems, bypass systems, drainage systems and pressure relief systems) in good working order?
7:26-11.7(c)1	Are they inspected at least once each operation day?
7:26-11.7(c)2	Does the data gathered from the monitoring equipment (e.g., pressure and temperature gauges) show treatment process is operating according to design?
7:26-11.7(c)2	Is data gathered at least once each

Are construction materials of the treatment process inspected at least weekly to detect corrosion or leaking

Are the discharge confinement

surrounding the treatment unit

structures (e.g., dikes) immediately

inspected at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).

operating day?

of fixtures and seams?

7:26-11.7(c)3

7:26-11.7(c)4

If open burning or detonation of

7:26~11.7(e)1	Are ignitable or reactive waste fed into the waste treatment system treated or protected from any material or conditions which may cause it to ignite or react?	
	If yes, explain how.	
7:26-11.7(f)	Are the incompatible wastes placed in the same treatment process?	
	If yes, please explain.	
7:14A-6	Ground Water Monitoring V/A	
	(Applies only to: Surface impoundments, landfills, land disposal facilities).	
7:14A-6.2	Does the owner/operator have a ground water monitoring plan approved by the department and capable of determining the facility's impact on the quality of ground water?	
	If no, please explain.	
	How many monitoring wells has the facility installed?	
	What is the depth to ground water?	
	How many deep monitoring wells are on site? (Indicate depth of monitoring wells).	
	How many shallow monitoring wells are on site? (Indicate depth of monitoring wells).	
7:14A-6.3(a)	Is the ground water monitoring system capable of yielding ground water samples for analysis?	
	If no, please explain.	
7:14A-6.3(a)1	Are monitoring wells installed hydraulically upgradient?	
	If yes, specify how many and the depth of each.	

	YES	<u>NO</u>	N/A	
7:14A-6.3(a)2	How many monitoring wells are installed hydraulically downgradient?	-		
	If yes, specify how many and the depth of each.			
7:14A-6.4(a)	Does the owner/operator have a ground water sampling and analysis plan?			
	If no, please explain.			
7:14A-6.4(a)	Does the plan include procedures and techniques for:			
	<ol> <li>Sample Collection</li> <li>Sample Preservation and Shipment</li> <li>Analytical Procedures</li> <li>Chain of Custody</li> </ol>			
	List the types and quantities of hazardous waste incinerated.			
7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?			

If yes, when was the plan submitted?

### RCRA LAND DISPOSAL RESTRICTION INSPECTION

Facility: AT	FT Bell Lal	5 5	· · · · · · · · · · · · · · · · · · ·	<del></del>
U.S. EPA I.D. No.:	NJ DO1132	8887		
Street: Ci-	awfords Cor	ner Rd.		
city: Holmde	State:	77	Zip Code: 07	733
Telephone: (20	1) 564-2645			
Operator:	·			
Street:	·			
City:	State:		Zip Code:	
Telephone:				
Owner:				
Street:			·	
City:	State:		Zip Code:	
Telephone:				
Inspection Date: 08/1	8/88Time: <u>090D -174</u>	Weather Con-	titions:	
	. Affilia	<del>-</del>	Telephone	
Inspectors: Peter	Maruhnic D	EP (	609)426-07	00
Facility Representativ	ves: Edward	1 Nowak	Env. Mng. S	· p.
			Env. Fac.	,
	RCRA Status	F-Solvent	DR Status California List	
Generator				-
Transporte	r			-
Treater				-
Storer				-
Disposer	•			-

### INSPECTION SUMMARY

- Cornic Pol Holmold 11 f of mate - idents and in lat protestions and - out-dated and off- spec magniture

## RCRA LAND DISPOSAL RESTRICTION INSPECTION APPLICABILITY CHECKLIST

- Does the facility handle the following wastes?

				Gen.	Treat	Store	Disp.	Trans.
A.	F-S	olvent Was	ste <b>s</b>					
	1.	F001		<u>/</u>				
	2.	F002		V	•			
	3.	F003		1		e li inspirante l'aggliffe aggrés		
	4.	F004		*************		***************************************		
	5.	F005			***		-	
		Note:		lix A to dete ng any of it		ther the fa	icility is	

#### B. California List Wastes

1. Liquid hazardous waste (including free liquids associated with any solid or sludge) that contains the following metals at concentrations greater than or equal to those specified

		Gen.	Treat	Store	Disp.	Trans.
Arsenic	500 mg/L					
Cadmium	100 mg/L					
Chromium VI						
Lead	500 mg/L					<u> </u>
Mercury	20 mg/L			-		<del></del>
Nickel	134 mg/L					
Selenium	100 mg/L					
Thallium	130 mg/L					

2.	any solid or slud	waste (including ge) that contains feater than or equi	ree cyanid	cs at	d with	
		Gen.	Treat	Store	Disp.	Trans.
		**********	***************************************	*****		<del></del>
3.	Liquid hazardous	waste that has a	pH of less	than or ed	jual to 2.0	
		-				
4.	Liquid hazardous	waste that conta	ins PCBs a	t concentra	tions great	er
	than or equal to	50 ppm				***************************************
		500 ppm	<del></del>			
		cility mix liquid l Bs with other typ				
		Yes	N	Io	NA	
	If yes, state	reasons for mixing	ng:			
5.		s waste that is pri qual to 1,000 mg/				
		bitions of 268.32(a ject to the solvent				

# RCRA LAND DISPOSAL RESTRICTION INSPECTION GENERATOR CHECKLIST

### GENERATOR REQUIREMENTS

				the generat group of th			termine	the
				Yes		No		_ NA
	If yes, ch	ck the	approp	riate treata	bility g	roup.		
	by y Pha sper	reight) maceu t meth	tical was	ning solven stewater co loride vent wastes	ntainin		equal t	6 1% TOC
2.				Does the go			ily deter	rmine
	con 500 exis bur	entration ppm, is ting TS ting in	ons great the tres CA ther high ef	us waste thater than or atment in a mal treatm ficiency bo R 761.70)?	r equal accorda ient reg ilers (4	to 50 bunce with ulations	it less i for	or /
				Yes		_ No		_ NA
	If 3	es, spec	ify the	method:				
	con the	entrati waste i	ions grea ncinerat	us waste that of ter than of ed or dispo methods (4	r equal	to 500 p by other	opm, is	,
				Yes		_ No		_ NA
	sub Adı	nitted inistra	a written	method and request to assistant Acceptant	the R	egion <mark>al</mark> rator for	ап	ility has

B.	Waste	Ana	lvsis

2.

F-S	olvent Wastes	
a.	Does the generator determine whether the F-solvent waste exceeds treatment standards?	
	Yes No NA	
	How was this determination made?	
	- Knowledge of waste	
	If yes, note how this is adequate:	~
	- TCLP Yes No	
	If yes, provide the date of last test, the frequency of testing and note any problems. Attach test results.	
ъ.	Does the F-solvent waste exceed applicable treatability group treatment standards upon generation [268.7(a)(2)]?	
	Yes No NA	
	If yes, specify the waste stream:	
c.	Does the generator dilute the F-solvent waste as a substitute for adequate treatment [268.3]?	
	Yes No NA	
d.	How does the generator test F-solvent waste when a process or waste stream changes?	
Cal	ifornia List Wastes	
<b>a</b> .	Does the generator determine whether the waste is a liquid according to the Paint Filter Liquids Test (PFLT method 9095) as described by SW-846?	•
	Yes No NA	
	6 Revised 11-	03-87

	-	Yes	No	NA
Che	ck the types of	orbent is used? of waste to whi	ch absorbent	is
add		rdous waste ha al to 2	ving a pH les	3
•		or equal to 1,6		s in concentrations
	Liquid haza	irdous waste co	ntaining meta	ls
	Liquid haza	rdous waste co	ntaining free	cyanides
ext lev	ract or filtrate	e) in the waste	equal or exce	ncentration levels (no ed the prohibition han or equal to 2.0
-	Knowledge	of wastes		,
	-	Yes	No	NA
	If yes, note	how this is add	equate:	
	Tassina			
•	Testing	Yes	No	NA
•	-	Yes test method use		NA
	If yes, list the generated cyanide a	test method use or determine if nd metals conc	d:  concentration entration leve	n levels in PFLT extr
	If yes, list the generated cyanide a	test method use or determine if nd metals conc	d:  concentration entration leve	n levels in PFLT extr
	If yes, list to the generate deed cyanide a	or determine if nd metals conc  Yes  lest method use	d:  concentration entration leve  No d and constitu	I levels in PFLT extrests?  NA  Lent and concentration
	If yes, list to the generate deed cyanide a	or determine if and metals concurred Yes	d:  concentration leve  No  d and constitution levels:	I levels in PFLT extrests?  NA  Lent and concentration
- Do	If yes, list to seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide are seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels that the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels the seed cyanide and levels th	or determine if nd metals conc  Yes  lest method use exceeded prohil	d:  concentration entration leve  No  d and constitu pition levels:  aste as a subst	I levels in PFLT extress?  NA  Ment and concentratio
- Do	If yes, list of the generated cyanide and If yes, list of the levels that of the generates the generates	or determine if nd metals conc  Yes  lest method use exceeded prohil	d:  concentration leve  No  d and constitution levels:	n levels in PFLT extress?  NA  ment and concentratio

Man	agement					
1.	On-Site Management					
	Is waste that exceeds the treatment standards treated, stored, or disposed on-site?					
	Yes No					
	If yes, the TSD Checklist must be completed.					
2.	Off-Site Management					
	a. Does the generator ship any waste that exceeds the treatment standards to an off-site treatment or storage facility?					
	Yes No					
	If yes, does the generator provide notification to the treatment or storage facility [268.7(a)(1)]?					
	Yes No					
	If yes, does notification contain the following?					
	EPA Hazardous waste number(s) Yes No	I				
	Applicable treatment standards Yes No					
	Manifest number Yes No	i				
	Waste analysis data, if available Yes No	t				
	Identify off-site treatment or storage facilities: Advanced Environmental Tech.					
	MtOhye b. Does the generator ship any waste that meets the treatment standards to an off-site disposal facility?					
	Yes No					
	If yes, does the generator provide notification and certification to the disposal facility [268.7(a)(2)]?					
	Yes No					

C.

		If yes, does notification contain the foll	owing?
		EPA Hazardous waste number(s)	Yes No
•		Applicable treatment standards	Yes No
		Manifest number	Yes No
		Waste analysis data, if available	Yes No
		Certification that the waste meets treatment standards	Yes No
		Identify off-site land disposal facilities:	
	c.	If the waste is subject to a nationwide version, solvent-water mixtures less than 19 (268.5), or petition (268.6), does the general provide notification to the off-site dispetant the waste is exempt from land disperstrictions [268.7(a)(3)]?	6), extension trator osal facility osal
D.	(i.e., boile	nt Using RCRA 264/265 Exempt Units or ers, furnaces, distillation units, wastewate at tanks, elementary neutralization, etc.)	
	Arc	treatment residuals generated from units ler RCRA 264/265? YesN	or processes exempt
	If y	yes, list types of waste treatment units and	1 processes:

# RCRA LAND DISPOSAL RESTRICTION INSPECTION TRANSPORTER CHECKLIST

### TRANSPORTER REQUIREMENTS

٩.	Does the transporter accumulate waste for more than 10 days [268.50(A)(3)]?
	Yes No
	If yes, check the appropriate regulatory status: Interim status for storage RCRA permit for storage
	If no, describe inventory controls to ensure that wastes are not stored for more than 10 days:
В.	Does the transporter mix, combine, or recontainerize wastes?
	Yes No
C.	Is the waste treated in an exempt treatment process on-site?
	Yes No

# RCRA LAND DISPOSAL RESTRICTION INSPECTION TSD CHECKLIST

### TSD REQUIREMENTS

<u>Gen</u>	General Facility Standards					
1.	Does the waste analysis plan cover Part 268 requirements [264.13 or 265.13]?					
	o F	-solvent Yes No NA				
	。 C	California List Yes No NA				
2.	Does the facility obtain representative chemical and physical analyses of wastes and residues?					
		Yes No				
	a.	What date was the waste analysis plan last revised?				
	b.	Are analyses conducted on-site or off-site?				
		On-site Off-site				
		Identify off-site lab:				
	c.	Is F-solvent waste analyzed using TCLP?				
		Yes No NA				
	d.	Describe the frequency of sampling:				
	e. Describe procedures used to identify manifest discrepancies:					
		•				
3.		the operating records, including analyses and quantities, aplete [264.73/265.73]?				
		Ves No				

1.	Are restricted wastes stored on-site?
	Yes No
	<del></del>
	If no, go to C, Treatment in Surface Impoundments.
2.	If yes, check the appropriate method.
	Tanks Containers
3.	Are all containers clearly marked to identify the contents and date(s) entering storage?
	Yes No NA
4.	Do operating records track the location, quantity of the wastes, and dates that the wastes enter and leave storage?
	Yes No
5.	Do operating records agree with container labeling?
	Yes No NA
6.	Have wastes been stored for more than I year since the applicable LD regulations went into effect?
	Yes No NA
	If yes, can the facility show that such accumulation is necessary to facilitate proper recovery, treatment, or disposal?
	Yes No

	7.	Have tanks been emptied at least once per year since the applicable LDR regulations went into effect?
		Yes No NA
		If yes, do the operating records show that the volume of waste removed from tanks annually equals or is more than the tank volume?
		Yes No
	8.	Are all tanks clearly marked with a description of the contents, the quantity of wastes received, and date(s) entering storage, or is such information recorded and maintained in the operating record?
		Yes No NA
C.	Tre	atment
	1.	Does the facility treat restricted wastes other than in surface impoundments?  Yes No
		If no, go to D, Treatment in Surface Impoundments.
	2.	Describe the treatment processes:
	3.	Does the facility, in accordance with an acceptable waste analysis plan, determine whether the residue from all treatment processes is less than treatment standards [268.7(b)]?
		Yes No
	4.	Describe frequency of testing treatment residuals:
	5.	Is dilution used as a substitute for treatment?
		Yes No

6.	Are notifications prepared by the generators kept in the facility's operating record?
	Yes No
7.	Does the facility ship any waste or treatment residue that meets the treatment standards to an off-site disposal facility?
	Yes No NA
	If yes, does the treatment facility provide notification and certification to the disposal facility?
	Yes No
	If yes, does notification contain the following?
	EPA Hazardous waste number(s) Yes No
	Applicable treatment standards Yes No
	Manisest number Yes No
	Waste analysis data, if available Yes No
	Certification that the waste meets the treatment standards Yes No
	Identify off-site disposal facilities:
Tre	eatment in Surface Impoundments
1.	Are restricted wastes placed in surface impoundments for treatment?
	Yes No
	If no, go to E, Land Disposal.
2.	If yes, did the facility submit to the Agency the waste analysis plan and certification of compliance with minimum technology and ground-water monitoring requirements?
	Yes No

D.

3.	If the minimum technology requirements have not been met, has a waiver been granted for that unit?				
		Yes No			
4.	from	representative samples of the sludge and supernatant the surface impoundment tested separately, stably, and in accordance with the sampling frequency analysis specified in the waste analysis plan?			
		Yes No			
	Atta	ch test results.			
5.		he hazardous waste residues (sludges or liquids) ed the treatment standards specified in 268.41?			
		Yes No			
6.		ide the frequency of analyses conducted on treatment			
7.		the operating record adequately document the results aste analyses performed in accordance with 268.41?			
		Yes No			
8.	treat	the hazardous waste residues that exceed the ment standards (268.41) removed adequately and n annual basis?			
		Sludge Yes No			
		Supernatant Yes No			
	<b>a.</b>	If no, and supernatant is determined to exceed treatment concentrations, is annual volume of liquid flowing through the impoundment greater than the impoundment volume?			
		Yes No			
	b.	Are adequate precautions taken to protect liners, and do records indicate that liner integrity is inspected?			
		Yes No			

c. Are residues subsequently managed in another surface impoundment?		· · · · · · · · · · · · · · · · · · ·					
			Yes No				
		d.	Are residues treated prior to disposal?				
			Yes No				
			If yes, are waste residues treated on-site or off-site?				
			On-site Off-site				
			Identify treatment method:				
E.	Lan	d Dist	2052				
	1.	land	restricted wastes placed in land disposal units such as fills, surface impoundments waste piles, wells, land treatment s, salt domes/beds, mines/caves, or concrete vault or bunker?				
			Yes No				
		Note	Do not include surface impoundments addressed in D, Treatmen in Surface Impoundments.				
		-	es, specify which units and what wastes each unit has ived:				
	2.	<ol> <li>Does the facility operating record have notices and certifications frogenerators/storer/treaters [268.7(c); 268.7(a),(b)]?</li> </ol>					
			Yes No				
	3.	to t	s the facility obtain waste analysis data or test the wastes (according the waste analysis plan) to determine that the wastes comply with the licable treatment standards [268.7(c)]?  Yes No				
		If y	es, at what frequency?				

4.	If restricted wastes that exceed the treatment standards are placed in land disposal units (excluding national capacity variances) [268.30(a)], does facility have an approved waiver based on no migration petition [268.6], an approved case-by-case capacity extension [268.5], or variance [268.44]?					
	Yes No					
5.	Does the facility dispose of restricted wastes that are subject to a national capacity variance?					
	Yes No					
	If yes, are these wastes disposed of in a new, replacement, or laterally expanded landfill or impoundment that meets the minimum technology requirements (double liner and leachate collection)?					
	Yes No					
6.	Does the facility have notices [268.7(a)(3)] and records of disposal for disposed wastes that are subject to a national capacity variance, case-by-case extensions [268.5], or no migration petitions [268.6]?					
	Yes No NA					
7.	What is the volume of the restricted wastes disposed of to date?					
8.	If the facility has a case-by-case extension, is the facility making progress as described in progress reports?					
	Yes No NA					

#### APPENDIX A

#### SOLVENT IDENTIFICATION CHECKLIST

1.	<ol> <li>Does the handler generate any of the following F001 constituents (i.e., spent halogenated solvents used in degreasing) as a result of being used in the process eith in pure form or commercial grade?</li> </ol>				
	tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane carbon tetrachloride chlorinated fluorocarbons	Yes Yes Yes Yes Yes	No No No No No		
2.	Does the handler generate any of the follows: constituents (i.e., spent halogenated solver being used in the process either in pure f commercial grade?	nts) as a re			
	tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane chlorobenzene trichlorofluoromethane 1,1,2-trichloro-1,2,2-trifluoroethane ortho-dichlorobenzene	YesYesYesYesYesYesYes	No No No		
3.	Does the handler generate any of the following F003 constituents (i.e., spent nonhalogenated solvents) as a result of being used in the process either in pure form or commercial grade?				
	xylene acetone ethyl acetate ethyl benzene ethyl ether methyl isobutyl ketone n-butyl alcohol cyclohexanone methanol	YesYesYesYesYesYesYesYesYes	No		
	If the F003 waste stream has been mixed does the resultant mixture exhibit the ign characteristic?		id waste,No		

4.	Does the handler generate any of the following F004 constituents (i.e., spent nonhalogenated solvents) as a result of being used in the process either in pure form or commercial grade?	
	cresols and cresylic acid nitrobenzene	Yes No
5.	Does the handler generate any of the constituents (i.e., spent nonhalogenate result of being used in the process eicommercial grade?	ed solvents) as a ther in pure form or
	toluene methyl ethyl ketone carbon disulfide isobutanol pyridine	YesNoYesNoYesNoYesNoYesNo
6.	Are any of the constituents listed in 5 used for their "solvent" properties (dissolve) or mobilize other constitue questions will be helpful in confirm	- that is to solubilize ents? The following
	(a) Are the constituents used as ch	emical carriers?No
	If yes, list the constituents.	
	(b) Are the constituents used for d	legreasing/cleaning?/No
	If yes, list the constituents.	
	(c) Are the constituents used as di	luents?YesNo
	If yes, list the constituents.	
	(d) Are the constituents used as ex	ttractants? / No

	If yes, li	st the constituents.
	(e) Are	the constituents used for fabric scouring?YesNo
	If yes, li	st the constituents.
	(f) Are	the constituents used as reaction and synthesis media? YesNo
	If yes, li	st the constituents.
		es to questions 1 through 6 led the inspector to he waste may be an F-solvent, answer question 7.
7.	is consid	of the above constituents spent solvents? (A solvent lered "spent" when it has been used and is no longer without being regenerated, reclaimed, or otherwise sed.)  YesNo
8.	question	aste is a mixture of constituents as determined in s I through 6, give the concentration before use of all the ents in the solvent mixture/blend. For example:
	5%	methylene chloride
	2%	trichloroethylene
	25% 68%	1,1,1-trichloroethane mineral spirits
	100%	mineral spirits
	or more	aste stream is a mixture containing a total of 10% (by volume) of one or more of the F001, F002, F004, listed constituents before use, it is a listed waste.
	waste st	spect to the F003 solvent wastes, if, before use, the ream is mixed and contains only F003 constituents, it ed waste. For example:
	33%	acetone
	16%	methanol
	51%	ethyl ether
	100%	

If the waste stream is a mixture containing F003 constituents and a total of 10% or more of one or more of the F001, F002, F004, and F005 listed constituents before use, it is a listed waste. For example:

50%	xylene	(F003)
12%	TCE	(F001)
38%	mineral	spirits
100%		

If in light of the above, the handler appears to be generating F001 - F005 hazardous wastes, refer this facility to the enforcement official for followup actions verifying the use of solvents at the facility.

# APPENDIX B TREATMENT STANDARDS FOR F-SOLVENTS

	CONCENTRATION (IN MG/L)	
F001-F005 SPENT SOLVENTS	WASTEWATERS	OTHER WASTES
Acetone	0.05	0.59
N-butyi	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cycohexanone	.125	.75
1,2-dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethyl benzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmac	eutical	
industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichlor 1,2,2-trifluoroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

Wastes shipped to:

TSD NAME LOCATION EPA ID NO.	TYPE OF FACILITY T/D METHODS	WASTE CODE	WASTE QUANTITY	COMMENTS (shipment dates, waste descriptions, etc.)
Advanced Env Tec Mt Ohve NJ NJD080631369	TSD	F002 F003 D001	80 P 80 P 160 P	Lub packs Thumable lig corrusive 4-11-88
		F003 D002	800 P 500 P 172 P	8-11-88
		1003 1001 1002	870 P 80 P 80 P	710 mm + corrosive
		F003 D001	2 400 t	·

REFERENCE NO. 19

Maria de Calendario

Armen de carriera

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AT&T Bell Laboratories

101 John F. Kennedy Parkway Short Hills, New Jersey 07078-0905 201 564-2000

August 29, 1988

Mr. Peter Maruhnic State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Central Bureau of Field Operations Twin Rivers Professional Building East Windsor, New Jersey 08520

Re: AT&T Bell Laboratories, Holmdel Facility RCRA Inspection

Dear Mr. Maruhnic:

This letter is in response to the issue of transportation of small quantities of waste generated at AT&T Bell Laboratories satellite facility discussed during the August 18, 1988 RCRA inspection. Attached please find a copy of the correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated August 3, 1983. This letter outlines the Department's understanding and concurrence of how AT&T-BL handles the transportation.

The fourth paragraph of the letter states ... "it was not necessary to manifest these shipments; nor was it necessary to use a permitted hazardous waste hauler. However, you are required to use a permitted solid waste hauler and it was suggested that you might register one of the Bell's trucks to serve this purpose".

During your inspection, David Cesareo supplied for your information our Solid Waste Administration (SWA) registration number and detailed how we are operating currently in terms of transporting our waste from our satellite facilities. This current operation is exactly as detailed in the referenced letter.

If you require further information on this matter after reviewing the letter, please call David Cesareo at (201) 564-2626 or Martha Coopersmith-Gray at (201) 564-2655.

Very truly yours,

Paul E. Wyszkowski P.E.

Manager

Environmental Management Department

Attachment as above

Copy (w/attach.) to G. R. Bogdan N. C. Burnett

N. C. Burnett
D. J. Cesareo
M. C. Coopersmith-Gray
W. J. England
D. J. Martindell
E. Nowak
G. M. Wilkening

J. Zec

REFERENCE NO. 20



# State of New Jersey

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam Deputy Director

Hazardous Waste Operations

John J. Trela, Ph.D., Director 401 East State St. CN 028 Trenton, N.J. 08625-0028 (609)633-1408

Lance R Miller Deputy Director

Responsible Party Remedial Action

# Hazardous Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

Bell Telephone Laboratories, Incorporated for AT&T Bell Laboratories Crawfords Corner Road Holmdel, New Jersey 07733

For the Purpose of Operating a: Hazardous Waste Storage Facility

On Lot No.: 38
Block No. 1

In the Municipality of: Township of Holmdel

County: Monmouth Under Facility Permit No.: 1318G1HP01

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to Riparian land nor does it permit the registrant to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be Riparian, Wetlands, stream encroachment or flood plains, or within the Coastal Area Facility Review Act (CAFRA) zone or allow the discharge of pollutants to waters of this State without first acquiring the necessary grants, permits, or approvals from the Department of Environmental Protection or the U.S. Environmental Protection Agency.

12/23/88

Date

12/23/93

Frank Coolie

Acting Assistant Director

Expiration Date

#### Scope of Permit

AT&T Bell Laboratories is a communications-related research and development facility. Rinse waters and other aqueous hazardous wastes generated from research and development laboratories are stored in one (1) vaulted tank of 6,000 gallon capacity, spent etching solutions, waste paint thinner, and spent solvents are stored in 17 X 55-gallon drums or the equivalent volume of 30-gallon drums with a total capacity of 935 gallons at the diked pad area. Small containers (bottles, jars, jugs, etc.) of laboratory wastes are stored in two (2) masonry rooms and one (1) cabinet with a total capacity of 95 gallons. Laboratory wastes generated on-site or off-site from company-owned locations are stored in these areas. No hazardous waste is disposed of at AT&T Bell Laboratories.

# Section I

# General Conditions Applicable to Non-Commercial Hazardous Waste Facility Permits

The permit is conditioned upon compliance with and implementation of the following:

# 1) Duty to Comply

The permittee shall comply with all conditions of this Permit. Any permit non-compliance constitutes a violation of the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Any generator, hauler, facility operator or any other person who discharges or is responsible for discharge of hazardous waste on land or in the waters of the State of New Jersey or at any place other than an approved hazardous waste facility shall be subject to penalties pursuant to N.J.S.A. 58:10A-1 et seq.

### 2) Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must submit a complete application for a new permit at least 180 days prior to permit expiration.

#### 3) Duty to Halt or Reduce Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#### 4) Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

### 5) Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality

assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

#### 6) Permit Actions

This permit may be modified or revoked and reissued for cause pursuant to N.J.A.C. 7:26-12.6. Also, the Department reserves the right to terminate an existing permit for cause pursuant to N.J.A.C. 7:26-12.7.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.

#### 7) Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

#### 8) Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

#### 9) Right of Entry

The permittee shall allow an authorized representative of the Department upon presentation of credentials to:

- a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- b) Have access to and copy any records that should be kept under the conditions of this permit:
- c) Inspect any facilities, equipment (including monitoring control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor for the purposes of assuring permit compliance or as otherwise authorized by the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.), any substances at any location.

#### 10) Monitoring and Records

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

- a) The permittee shall retain records of all monitoring information, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Department at any time.
- b) Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurement;
  - 2) the individual(s) who performed the sampling or measurements;
  - 3) the date(s) analyses were performed;
  - 4) the individual(s) who performed the analyses;
  - 5) the analytical techniques or methods used; and
  - 6) the results of each analysis.

# 11) Signatory Requirement

All applications, reports, or information submitted to the Department shall be signed and certified pursuant to N.J.A.C. 7:26-12.2(1).

#### 12) Reporting Requirements

- a) Upon issuance of this permit, the permittee shall comply with the procedure outlined in condition 12(a)1 below. Failure to comply with the aforementioned procedure shall be cause for immediate revocation of this permit:
  - The permittee shall submit to the Department, by certified mail or hand delivery, within thirty (30) days of the effective date of this permit, a letter signed by the permittee and a registered professional engineer, who is licensed by the State of New Jersey, stating that the facility layout and design is in compliance with the Engineering Plans and Reports cited in Condition 1(a) of Section II of this permit. This shall include the submittal of a revised set of the engineering drawings cited in Condition 1(a) of Section II of this permit, if necessary. If applicable, these drawings shall be signed and sealed by a New Jersey licensed professional engineer; and

The Department shall inspect the facility to determine 2) whether or not it is in compliance with the designs set forth in the Engineering Plans and Reports, and whether the operations of the facility are in compliance with the conditions of this permit. If within 15 days of the date of submission of the letter in Condition 12(a)(1) of this section, the permittee has not received from the Department notice of intent to inspect, prior inspection is waived and it is understood that the facility meets the design requirements. If the facility is not in compliance with the approved design and other conditions of this permit, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection, outlining how the facility will be brought into compliance. The schedule shall be subject to the Department's approval.

# b) Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee shall obtain Departmental approval, prior to implementation, for any such alteration or addition subject to Departmental regulations or the conditions of this permit, including permit modification or permit revocation and reissuance, if necessary.

# c) Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Such advance notice shall not stay the applicability of said permit requirements or the applicability of Condition 1 of this permit, nor shall it relieve the permittee from the obligation to obtain all necessary Departmental approvals of said changes prior to implementation, including permit modification, permit revocation and reissuance, or issuance of an emergency permit, when necessary.

# d) Transfer of Ownership or Operational Control

- Permits issued pursuant to N.J.A.C. 7:26-12.1 et seq. are not transferable directly to a new owner or operator.
- 2) The permittee shall notify the Department at least 90 days in advance of any proposed change of ownership or operational control of a facility. The notice shall include:
  - i) An Alternative Information Statement prepared by the prospective new permittee meeting the requirements of N.J.A.C. 7:26-12.2(h);

- ii) A written agreement between the existing permittee and the proposed new permittee containing a specific future date for transfer of permit responsibilities coverage and liabilities between them;
- iii) A demonstration that the financial responsibility requirements of N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.13 will be met by the proposed new permittee.
- 3) A new owner or operator may commence operations at the facility only after the existing permit has been revoked and reissued pursuant to N.J.A.C. 7:26-12.6(c).
- 4) The permittee of record remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is reissued in the name of the new owner or operator.

# e) Annual Reports

The permittee must prepare and submit two copies of a facility annual report to the Department as per N.J.A.C. 7:26-7.6(f)2 by March 1 of each year, covering the previous calendar year's hazardous waste facility activities.

# f) Discharge and Other Emergency Reporting

The permittee shall report any noncompliance which may endanger human health or the environment. The following information shall be reported orally to the Department immediately after the permittee becomes aware of the circumstances by calling (609) 292-7172 (24 Hours).

- Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies.
- 2) Any information of a release or discharge of hazardous waste, or a fire or explosion from a hazardous waste facility which could threaten the environment or human health outside the facility.
- 3) The description of the occurrence and its cause shall include:
  - Name, address, and telephone number of the owner or operator;
  - ii) Name, address, and telephone number of the facility;
  - iii) Date, time and type of incident;

- iv) Name and quantity of material(s) involved:
- v) The extent of injuries, if any;
- vi) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
- vii) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances to the address in Section (i) of this condition. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

# g) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section (c) or (f) of this Condition within 30 days of the time the permittee becomes aware of the noncompliance. The reports shall contain the information listed in Section (f) of this Condition.

#### h) Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

#### i) Department Address

All reports and submittals required by this permit are to be submitted to the Department of Environmental Protection at the following address:

Department of Environmental Protection Division of Hazardous Waste Management Chief, Bureau of Hazardous Waste Engineering CNO28

Trenton, New Jersey 08625

Copies of all submittals shall also be sent to the Regional Office of the Bureau of Field Operations.

# 13) Preparedness and Prevention Plan

The permittee must equip the facility with emergency equipment in order to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous wastes or hazardous waste constituents to the air, surface water, or ground water which could threaten the environment or human health. The facility's equipment must include, but not be limited to, the following:

- a) Portable fire extinguishers placed in locations throughout the facility.
- b) An adequate water supply shall be maintained on-site or be available to fight fires and provide cooling during emergencies.
- c) Telephone communications must be locally maintained to summon emergency assistance from local fire departments, police departments, state or local emergency response teams.
- d) Spill containment structures must be maintained free of cracks or gaps.
- e) Absorbent compounds must be readily available within the facility to be employed if a spill should occur.
- f) All preparedness and prevention equipment shall be tested and maintained as necessary to assure its proper operation in time of emergency.

# 14) Personnel Training

- a) Facility personnel shall successfully complete a program of classroom instruction or on-the-job-training that teaches them to perform their duties in a way that insures the facility's compliance with the requirements of N.J.A.C. 7:26-9.4 (g), as stated in the facility's part B permit application, and as referenced in Condition 1(a) of Section II of this permit. New employees shall be trained within six (6) months of the date of employment.
- b) The training program shall be maintained with records and documentation describing the type and amount of both introductory and continuing training that has been and will be given to each person engaged in hazardous waste management at the facility.

#### 15) Financial Requirements

a) The permittee shall continue to maintain financial responsibility for claims arising from the operations of the facility from sudden and accidental occurrences that cause injury to persons or property. The permittee shall have and maintain liability insurance for sudden occurrences in the amount of at least \$1 million per occurrence with an annual

aggregate of at least \$2 million, exclusive of legal defense costs.

The following is a summary of acceptable means to demonstrate financial responsibility for sudden and accidental occurrences under N.J.A.C. 7:26-9.13:

- 1) Submission of an originally signed duplicate of the insurance policy. This policy must be either:
  - Amended by attachment of an originally signed duplicate of a Hazardous Waste Facility Liability Endorsement; or
  - ii) An originally signed duplicate of a Certificate of Liability Insurance must accompany the policy as evidence of the coverage.
- 2) Passing a financial test for liability coverage according to N.J.A.C. 7:26-9.13(f).
- 3) Use of a combination of insurance and financial test.
- b) The permittee shall continue the use of the financial assurance mechanisms in N.J.A.C. 7:26-9.10 to provide financial assurance for closure of the facility.

The following is a summary of the closure mechanisms that are allowed for facilities under N.J.A.C. 7:26-9.10:

- 1) Closure Trust Fund, N.J.A.C. 7:26-9.10(f)1;
- 2) Surety bond guaranteeing payment into a closure trust fund, N.J.A.C. 7:26-9.10(f)2;
- 3) Performance bond, N.J.A.C. 7:26-9.10(f)3.
- 4) Closure Letter of Credit and establishment of a standby trust fund at the time of the letter of credit is obtained, N.J.A.C. 7:26-9.10(f)4;
- 5) Closure Insurance, N.J.A.C. 7:26-9.10(f)5.
- c) The wording of all financial documents (except for the insurance policy itself) that are submitted under 15(a) or 15(b) above must be exactly as specified in N.J.A.C. 7:26-9 (Appendix A).
- d) The permittee must adjust the facility's closure cost estimate for inflation within thirty (30) days after each anniversary of the date on which the first closure cost estimate was prepared. Whenever the current closure cost estimate increases to an amount greater than the amount of the financial mechanism, the permittee, within sixty (60)

days after the increase, must either cause the amount of the financial mechanism to be increased so that it at least equals the current closure cost estimate and submit evidence of such increase to the Department, or obtain and document to the Department other financial assurance, as specified in N.J.A.C. 7:26-9.10, to cover the increase.

#### 16) Operating Record

The permittee shall keep a written operating record at the facility in which the information in N.J.A.C. 7:26-9.4(1) shall be recorded. The information should be recorded as it becomes available and maintained until closure of the facility.

# 17) Posting of Notice

The notice concerning civil and criminal penalties for illegal disposal of hazardous waste must be conspicuously posted and available for all employees to read.

### 18) Early Expiration of Permit

If, for any reason, this facility ceases to be operated on a continuous basis and/or ceases to be operated by the owners or operators listed in the Alternative Informative Statement that was submitted, the permit expires of its own accord and remains ineffective until reissuance by the Department.

#### 19) Permit Limitations

- a) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations.
- b) This permit does not constitute the sole source of guidelines to be followed. Any new or current regulations concerning Water Quality, Air Pollution, Hazardous Waste, or other rules of the Department of Environmental Protection, applicable to the facility shall be complied with at the effective date. Regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register.

# 20) Contingency Plan

a) The provisions of the Contingency Plan included in the Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department, and as referenced in Condition 1(b)5 of Section II of this permit, shall be carried out immediately whenever there is a fire, explosion or release of hazardous waste constituents which could threaten health or the environment.

b) In the event of an emergency an alarm system must be activated to alert employees. The local Fire and Police Department should be notified immediately. The telephone numbers are:

Fire Department: (201) 946-4400

Police Department: (201) 946-4400

- c) If the facility has a discharge, fire, or explosion which could threaten human health or the environment, the following shall be notified immediately:
  - 1) Environmental Protection Agency
    Oil and Hazardous Materials Section
    Raritan Depot, Edison, N.J. 08817
    Telephone (201) 548-8730
  - New Jersey Department of Environmental Protection Communication Center/ Trenton Dispatch Bureau of Communication and Support Services Trenton, NJ 08625 Telephone (609) 292-7172 (24 Hours)
- d) The emergency coordinator's notification to both of the above two telephone numbers must include the following information:
  - 1) Name and telephone number of person reporting;
  - 2) Name and address of facility;
  - 3) Time and type of incident (fire or explosion);
  - 4) Name and quantity of material(s) involved, to the extent known;
  - 5) The extent of injuries, if any; and
  - 6) The possible hazards to human health, or the environment, outside the facility.
- e) Semi-annual drills involving all employees and appropriate local authorities shall be conducted to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures developed pursuant to N.J.A.C. 7:26-9.7.

#### 21) Security

The permittee must maintain the security procedures as described in the facility's security plan, included in the Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the

Department, and as referenced in Condition 1(a) of Section II of this permit.

These procedures will include:

- 1) Controlled entry at the main gate and all other access gates to the site.
- 2) An artificial or natural barrier, which completely surrounds the active portion of the facility. Maintenance of any fence which encloses the entire manufacturing site.
- 3) Maintenance of warning signs posted with the legend, "Danger-Hazardous Waste Area Unauthorized Personnel Keep Out", at each entrance of the hazardous waste management area, and also in sufficient numbers around this area, which can be seen from a distance of 25 feet.

#### Section II

# Specific Conditions Applicable to Hazardous Waste Facility Permits

The permit is conditioned upon compliance with and implementation of the following:

- 1) Referenced Permit Application Documents
  - a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the hazardous waste management provisions of Title 7, Chapter 26 of the New Jersey Administrative Code, the conditions of this permit, and the following permit application documents:
    - 1) AT&T Bell Laboratories Part A and Part B permit applications dated June 4, 1986, signed by Norman A Pancoast, Vice President of Finance, Personnel and General Services.
    - 2) Engineering design plans prepared by Peter W. Tunniclifee, P.E., and Chaitanysa M. Bijoor, P.E., dated April 16, 1986.
    - 3) Report covering additional information on the Part A and Part B permit applications signed by Paul E. Wyszkowski, P.E., dated December 3, 1986 and August 7, 1987.

In case of conflict, the hazardous waste management provisions of Title 7, Chapter 26 of the New Jersey Administrative Code shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the permit application documents listed above.

- b) One complete set of the permit application documents listed in Condition 1(a) above, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. The records, reports and plans required pursuant to this permit include the following:
  - 1) The Preparedness and Prevention Plan required by Condition 13 of Section I of this permit and N.J.A.C. 7:26-9.6.
  - 2) The Personnel Training Plan and records required by Condition 14 of Section I of this permit and N.J.A.C. 7:26-9.4(g).

- 3) Copies of the financial documents and closure cost estimate required by Condition 15 of Section I of this permit and N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.13.
- 4) The written Operating Record required by Condition 16 of Section I of this permit and N.J.A.C. 7:26-9.4(i).
- 5) The Contingency Plan required by Condition 20 of Section I of this permit and N.J.A.C. 7:26-9.7, and specifically the plan prepared by Paul E. Wyszkowski, P.E., dated June 4, 1986 and revised August 7, 1987.
- 6) The Waste Analysis Plan outlined in Condition 4 of Section II of this permit and as required by N.J.A.C. 7:26-9.4(b), and specifically the plan prepared by Paul E. Wyszkowski, P.E., dated June 4, 1986 and revised August 7, 1987.
- 7) The Inspection Requirements required by Condition 5 of Section II of this permit and N.J.A.C. 7:26-9.4(f) and N.J.A.C. 7:26-10, and prepared by Paul E. Wyszkowski, P.E., dated June 4, 1986.
- 8) The Closure Plan required by Condition 6 of Section II of this permit and N.J.A.C. 7:26-9.8 and N.J.A.C. 7:26-10, and prepared by Paul E. Wyszkowski, P.E., and dated June 4, 1986 and revised August 7, 1987.
- 9) The Soil Sampling and Analysis Plan required by Condition 7 of Section II of this permit, and prepared by Paul E. Wyszkowski, P.E., dated December 3, 1986 and revised August 7, 1987.

#### 2) Authorized Activities

#### a) Container (Drum) Storage

The permittee is authorized to store on-site generated wastes, as well as wastes generated at company-owned off-site locations, in containers (drums) on the diked concrete pad as delineated in the referenced permit application documents of Condition 1(a) of Section II. This area shall have a concrete base with a minimum 6 inches thickness.

# Description

Storage pad for spent etching solution, paint thinner waste, and spent

solvent (14'2"L X 39'6"W X 6"H)

# Permitted Capacity

935 gallons of liquids (17 x 55 gal.drums or equivalent volume of 30-gal.drums)

The containers shall be stored within the diked area on wooden pallets.

The permittee shall, on a daily basis, remove any spills from the catch basin within the containerized hazardous waste storage area and shall recontainerize the material for disposal as hazardous waste at off-site facilities. The control valve on the drainage system shall be kept in the closed position. The valve may be opened to discharge accumulated precipitation to Ramanessian Brook provided there are no visible hazardous waste spills and the accumulated liquid has been analyzed and found to be in compliance with the facility's NJPDES permit.

The permittee shall not place either incompatible wastes in the same drum or hazardous waste in an unwashed drum that previously held in incompatible waste or material.

#### b) Small Containers Storage

The permittee is authorized to store on-site generated hazardous waste in small containers (bottles, jars, jugs, etc.) as well as hazardous waste in small containers received from other AT&T Bell Laboratories facilities (Crawford Hill facility, Middletown facility and Red Hill Road facility) in the small containers storage areas. These areas are located within the laboratory wastewater treatment Building #61 as delineated in the referenced permit application documents of Condition 1(a) of Section II. Each area shall have a concrete base with a minimum 6 inches thickness.

#### Description

Permitted Capacity

Masonry room No. 1 No. 1 for acids and oxidizers 40 gallons of liquids, semi-liquids, semi-solids or solids in plastic or glass bottles, jugs, jars, etc.

Masonry room No. 2 No. 2 for caustics and cyanides 40 gallons of liquids, semi-liquids, semi-solids or solids in plastic or glass bottles, jugs, jars, etc.

Cabinet near masonry rooms #1 and #2 for compatible flammable and reactives

15 gallons of liquids, semi-liquids, semi-solids or solids in plastic or glass bottles, jars, jugs, etc.

Each small container storage area shall have reservoir at the bottom to contain any spills or leakage. Bottles, jars, jugs, etc. shall be stored on shelves to prevent them from

contacting any spilled liquid. The inside area of each reservoir shall be maintained free of gaps or cracks. The permittee shall, on a daily basis, remove any spills from each reservoir and recontainerize the material for disposal as hazardous waste at an authorized off-site facility.

#### c) Tank Storage

1) The permittee is authorized to store hazardous waste generated on-site from the research and development laboratories consisting of rinse waters and aqueous wastes, as well as wastes generated at company-owned off-site locations, in the lined carbon steel tank which sits in a roofed concrete vault at the location delineated in the referenced permit application documents of Condition 1(a) of Section II. The vaulted tank area (11'0"L X 21'0"W X 12'5"H) shall have a concrete base of a minimum 6 inches thickness.

Tank	Minimum Shell	Design Capacity of
Number	thickness (inch)	Tank in gallons
1	0.167	6,000

The permittee shall use the waste pouring station and associated piping leading to the tank for transfer of wastes from containers into the tank. The transfer shall be performed manually and the tank contents shall be pumped out for treatment or disposal at an authorized off-site facility when the capacity reaches approximately 5,000 gallons. pouring station shall be equipped with a lid which shall be kept in the closed position when waste transfer operations are not taking place. Any spills surrounding the pouring station and any separated solids on the screen within the pouring station shall be removed immediately containerized for disposal at an authorized off-site facility.

The base of the containment vault shall be maintained free of gaps and cracks. The permittee shall remove any accumulated liquids from the sump area back into the tank or containerize the material for disposal as hazardous waste at an authorized off-site facility.

#### 2) Tank Shell Thickness Measurements

thickness measurements plan and report as specified in the Part B application cited in Condition 1(a) of Section II. At a minimum, within six (6) months of the effective date of this hazardous waste facility permit, the permittee shall follow the following procedures to obtain the tank shell thickness measurements on the tank:

- A) The waste storage tank shall be emptied prior to initiating the testing.
- B) The tank surface shall be prepared by use of a fine emery paper to provide a clean surface at the time of the testing.
- C) Ultrasonic testing shall be used to determine tank wall thickness.
- D) The tank shall be tested of a total of four (4) points: two (2) points on opposite sides of the cylindrical portion and on each head.

All results of the tests for tank shell thickness shall be submitted to the Department within thirty (30) days after each testing date.

- ii) Beginning three (3) years from the initial testing date, and on every three (3) years thereafter the permittee shall repeat the tank shell thickness test on the tank.
- iii) In the event the results of a test for tank shell thickness indicate a shell thickness less than the minimum shell thickness of 0.167 inch specified in Condition 2(c)(1) of Section II, the permittee shall comply with the following:
  - A) Provide immediately oral and written notification to the Department of the tank failing the minimum shell thickness;
  - B) Refrain from adding any waste to the tank;
  - C) Submit a corrective plan to the Department, within thirty (30) days from the date of oral notification, for Department review and written approval; and
  - D) The company shall not use or close the tank without obtaining written approval from the Department.

#### 3) Authorized Wastes

a) The permittee is authorized to store the following types of on-site generated wastes, as well as wastes generated at company-owned off-site locations, in 55-gallon or 30-gallon containers at the facility.

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste
D001	Ignitable
D002	Corrosive
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total percent of 10 percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004 and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2-2-trifluoroethane, 0-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004 or F005; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003	The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed in F001, F002, F004 and F005; and the still bottoms from the

F005

recovery of these spent solvents and spent solvent mixtures.

The following spent non-halogenated solvents: cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and all still bottoms from the recovery of these spent solvents and spent solvent mixtures.

The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed above or those solvents listed in F001, F002 or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

b) The permittee is authorized to store in small containers (bottles, jars, jugs, etc.) the following on-site generated waste types as well as the waste types generated from company- owned off-site locations at the indoor small containerized hazardous waste storage areas at the facility:

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste
D001	Ignitable
D002	Corrosive
D003	Reactive (Potassium borohydride, Rubidium, Barium, Sodium in solvent, Calcium turnings, and Magnesium powder).
D004 D005 D006 D007 D008 D009	EP Toxic Arsenic EP Toxic Barium EP Toxic Cadmium EP Toxic Chromium EP Toxic Lead EP Toxic Mercury

F002

F003

F004

D010 EP Toxic Selenium
D011 EP Toxic Silver

The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total percent of 10 percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004 and F005; and still bottoms

The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2-2-trifluoroethane, 0-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004 or F005; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.

from the recovery of these spent solvents and spent solvent mixtures.

The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed in F001, F002, F004 and F005; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.

The following spent non-halogenated solvents: cresols and cresylic acid,

and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and all still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F005

The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed above or those solvents listed in F001, F002 or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F007

Spent cyanide plating bath solutions from electroplating operations.

X721

Waste automotive crankcase and lubricating oils.

X725

Oil spill cleanup residue which: A. is contaminated beyond saturation; or, B. the generator fails to demonstrate that the spilled material was not one of the listed hazardous waste oils.

X726

The following used and unused waste oils: metal working oils, turbine lubricating oils, diesel lubricating oils; and quenching oils.

X727

Waste oil from the draining, cleaning or disposal of electric transformers with PCB's less than 50 ppm.

"P" Code Numbers

Any discarded commercial chemical products, off-specification species, and spill residues thereof which are listed in N.J.A.C. 7:26-8.15(e).

"U" Code Numbers

Any discarded commercial chemical products, off-specification species, and spill residues thereof which are

listed in N.J.A.C. 7:26-8.15(f).

"C" Code Numbers

Any waste streams containing the hazardous constituents under hazardous waste "C" Code Numbers listed in N.J.A.C. 7:26-8.16(a).

The permittee must obtain necessary approvals from the USEPA before storage of polychlorinated biphenyl, N.O.S. under the C387 waste code if the concentration of PCB's is equal to, or in excess of, 50 ppm.

The permittee is also authorized to store in small containers non-hazardous waste being managed as hazardous waste under the following code:

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste	
X850	Packed laboratory chemicals	
X900	Non-hazardous liquid waste	
X910	Non-hazardous solid waste	
X940	Poisons and pesticides, N.O.S.	

c) The permittee is authorized to store in the tank laboratory rinse waters and aqueous wastes generated on-site from the research and development laboratories, as well as waste generated at company-owned off-site locations, which are hazardous for the following characteristics:

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste		
D002	Corrosive		
D004	EP Toxic Arsenic		
D005	EP Toxic Barium		
D006	EP Toxic Cadmium		
D007	EP Toxic Chromium		
D008	EP Toxic Lead		
D009	EP Toxic Mercury		
D010	EP Toxic Selenium		
D011	EP Toxic Silver		

The permittee is also authorized to store in the tank non-hazardous laboratory rinse waters and other non-hazardous aqueous wastes not meeting the criteria of hazardous waste under N.J.A.C. 7:26-8.1 et seq., provided said waste managed as hazardous waste under the following code:

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste
X900	Non-hazardous liquid waste.

#### 4) Waste Analysis and Quality Assurance Requirements

The permittee shall comply with the following for each waste generated at this facility or accepted from company-owned off-site facilities:

- a) For each waste stream, the permittee shall complete an Unwanted Chemical Removal Tag or Spent Etching Disposal Tag. For each small container of hazardous waste to be stored in two (2) masonry rooms and one (1) cabinet, the permittee shall also complete a Waste Data Sheet (WDS). Each WDS, Unwanted Chemical Removal Tag and Spent Etching Disposal Tag shall contain, at a minimum, the same information as the sample forms provided in the Part B application cited in Condition 1(a) of Section II of this permit.
- b) For each waste, a qualified facility personnel with guidance from the Environmental Management Department of AT&T Bell Laboratories shall review the information on the applicable WDS, Unwanted Chemical Removal Tag or Spent Etching Disposal Tag to determine appropriate classification and storage areas. If the waste meets appropriate classification and storage requirements as authorized by Conditions 2 and 3 of Section II, then the permittee may accept the container of waste for storage at the facility.
- c) The waste need not be analyzed unless the permittee has reason to believe it is not as represented on the WDS, Unwanted Chemical Removal Tag or Spent Etching Disposal Tag.
- d) The permittee shall review and update as necessary each tag on a yearly basis. Also, whenever a process generating a particular waste is changed, the WDS, Unwanted Removal Tag and Spent Etching Disposal tag for that waste shall be modified as necessary.
- e) Prior to the addition of any waste to the tank, the wastes shall be tested for compatibility with the hazardous wastes already stored in the tank. Compatibility shall be determined by mixing 5 milliliters of the waste with 50 milliliters of the tank's contents to confirm the absence of gas evolution, fumes or changes in temperature. Incompatible wastes shall not be added to the tank.
- f) The permittee shall maintain a log book for the hazardous waste storage tank with a record of all additions: date, waste type, quantity and the name of the person performing the addition.
- g) Prior to shipment of waste from the tank to an authorized off-site disposal facility, the permittee shall collect a representative sample and have it analyzed for pH, arsenic, lead and mercury.

- h) Prior to the addition of any waste to a drum, the waste shall be tested for compatibility with the wastes already stored in the drum. The compatibility test shall be by the same method as described in Condition 4(e) of Section II above. Incompatible hazardous wastes shall not be added to a drum.
- The permittee shall maintain a separate log book for the wastes stored in drums with a record of all additions: drum identification, date, waste type, quantity and the name of the person performing the addition.
- j) The permittee does not need to analyze the content of a filled drum provided the log book provides sufficient information to characterize the waste.
- k) All analyses on the waste performed by the permittee shall be performed in accordance with the Quality Assurance/Quality Control methods established by the Division of Hazardous Waste Management. A copy of all waste testing results shall be retained for a minimum of three (3) years.
- 1) The Department is presently reviewing the waste analysis plan, included in AT&T Bell Laboratories Part B application, in accordance with the standards provided by the USEPA, Region II. In order to accomplish equivalent standards required by the USEPA, the Department has assigned this task to the Quality Assurance Section of the Bureau of Environmental Measurements and Quality Assurance. If this review reveals deficiencies, the permittee shall be required to submit a revised waste analysis plan to the Department for approval.

#### 5) <u>Inspection Requirements</u>

The permittee shall comply with the inspections, as outlined in Section 6 of the referenced permit application documents in Condition 1(a) of Section II, for equipment malfunction, structural deterioration, operator errors, spills or leakage and discharges that could cause or lead to the release of hazardous waste constituents and adversely affect the environment or threaten human health. AT&T Bell Laboratories shall conduct the inspections per the schedules listed below:

#### a) Container (Drum) Storage Area

Activity/Equipment	Inspected for	Frequency
Container placement	minimum 18" aisle, neat, stable	Daily
Container sealing	all bungs & covers	Daily
Container labeling	labels complete	Daily

	Container condition	leaks, deterioration	Daily
	Pad area	cracks	Weekly
	Dike walls	cracks	Weekly
	Drain valve	operation and position	Weekly
	Shower and eyewash	operational condition	Weekly
	Container location by type	segregation per Condition 3 of Section II	Daily
b)	Small Container Storage Are	<u>a</u>	
	Activity/Equipment	Inspected for	Frequency
	Container Labeling	labels complete	Weekly
	Container condition	leaks	Weekly
	Container sealing	covers	Weekly
	Reservoir	standing leaks, cracks	Weekly
	Container location	segregation per Condition 3 of Section II	Weekly
c)	Tank Storage Area		
	Activity/Equipment	Inspected for	Frequency
	Tank Condition	leaks, stains	Daily
	Waste in the tank	level	Daily
	Tank shell thickness	shell thickness	Every 3 years
	Dike wall	cracks	Weekly
	Vault base	standing water, cracks	Weekly
	Pipes	supported, no leaks	Weekly
	Loading pad drain	operational	Weekly
	Ladder and platforms	structural defects	Weekly

#### d) Security

Activity/Equipment	Inspected for	Frequency
Fence	Functional	Weekly
Lock on gate of fence	Position, close or open	Daily

A written log of all inspections, including copies of the completed inspection checklists as provided in the referenced permit application documents of Condition 1(a) of Section II, is to be kept on-site. At a minimum, this log must include the date and time of each inspection, the name of the inspectors, a notation of observations made, and the date and nature of any repairs or other remedial actions performed.

#### 6) Closure Plan

At the time of final closure of the facility, the permittee must close the facility in the manner that is stated in the referenced permit application documents of Condition 1(a) of Section II, which shall entail:

#### a) Hazardous Waste Storage Tank

- All hazardous waste and hazardous residues shall be removed and manifested to an authorized off-site facility.
- 2) Subsequent to removal of wastes, the permittee shall either remove as hazardous waste at off-site authorized facilities or decontaminate following the decontamination procedures for the storage area and structures as described in the referenced permit application documents of Condition 1(a) of Section II by Paul E. Wyszkowski, P.E., dated August 7, 1987. The procedure includes:
  - i) The tank, feed pipe, and pouring station shall be rinsed with clean water or a commercial cleaner.
  - ii) A sample of the rinse shall be taken and analyzed for indicator parameters to confirm the removal of all hazardous waste from the tank and feed system. The analyses shall include determinations for total metals by atomic absorption, and priority pollutant volatile organics by gas chromatograph/mass spectrometry (GC/MS).
  - iii) The above procedures 2(i) and 2(ii) shall be repeated until the analytical test results indicate that the tank, feed pipe and pouring station are properly decontaminated.

#### b) Drum Storage Area

- 1) All drummed hazardous waste and hazardous waste residues shall be removed and manifested to an authorized off-site facility.
- 2) Subsequent to removal of wastes, the permittee shall either remove as hazardous waste at off-site authorized facility or decontaminate following the decontamination procedures for the storage areas and structures as described in the referenced permit application documents of Condition 1(a) of Section II by Paul E. Wyszkowski, P.E., dated August 7, 1987. The procedure includes:
  - i) Chip samples of the concrete base shall be obtained and tested to determine if hazardous waste contamination exists. Chip samples shall be analyzed for total metals by atomic absorption techniques, petroleum hydrocarbons by extraction and infrared detection, and priority pollutant volatile organics by GC/MS techniques.
  - ii) If contamination is detected, the drum storage area shall be washed with a commercial cleaner.
  - iii) The above procedures 2(i) and 2(ii) shall be repeated until the chip test results indicate that the facility's drum storage areas and structures are decontaminated.

### c) Small Container Storage Area

- 1) All bottles, jars, jugs, etc. of hazardous waste and hazardous waste residues shall be removed from two (2) masonry rooms and one (1) cabinet and manifested to an authorized off-site facility.
- 2) Subsequent to the removal of hazardous wastes, the permittee shall either remove as hazardous waste at off-site authorized facilities or decontaminate following the decontamination procedures for the storage areas and structures as described in the referenced permit application documents of Condition 1(a) of Section II by Paul E. Wyszkowski, P.E., dated August 7, 1987. The procedure includes:
  - i) Wipe samples shall be obtained and tested to determine if hazardous waste contamination exists. Wipe samples shall be analyzed for priority pollutants by GC/MS and petroleum hydrocarbons by extraction and infrared detection.

- ii) If contamination is detected, the small container storage area shall be washed with a commercial cleaner.
- iii) The above procedures 2(i) and 2(ii) shall be repeated until the wipe test results indicate that the facility's small container storage in two (2) masonry rooms and one (1) cabinet areas and structures are decontaminated.
- d) All waste water and residues generated from decontamination operations of cleaning the vaulted tank, containerized hazardous waste storage areas and structures shall be immediately containerized, and promptly manifested to authorized off-site facilities.
- e) The permittee shall amend the closure plan any time changes in operating plans or facility design affect the closure plan or whenever there is a change in the expected year of closure of the facility. The plan must be amended within sixty (60) days of the changes.
- f) The permittee shall notify the Department at least 180 days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decree or compliance order to cease receiving the wastes or to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes.

### 7) Soil Sampling and Analysis Requirements

a) The permittee shall comply with the soil sampling and analysis plan and report as specified in the Part B application cited in Condition 1(a) of Section II. At a minimum, within sixty (60) days of the effective date of this hazardous waste facility permit, the permittee shall collect the following samples to a depth approximately six (6) inches from the ground surface at the facility.

### Sample Number

#### Description

S1	A grab sediment	sample	obtained from
	the catch basin	in the	drum storage
	area.		

S2 A grab soil sample obtained from the ground surface near the waste pouring station east south of the drum storage area.

A grab soil sample obtained from the ground surface adjacent to the waste tank pump-out pit north west of the

vaulted tank.

A grab soil sample obtained from the drainage ditch located near the drum storage pad. In addition, samples shall be taken from unpaved areas where stained soils exist.

- b) The volatile organic fraction sample shall be collected to a depth approximately 6 to 12 inches in accordance with NJDEP sampling procedures.
- c) The permittee shall use a laboratory approved by the NJDEP to perform sample analyses. The Laboratory conducting the soil analysis utilize CLP SOW for Organics and Analysis or SW-846 3rd edition methodologies. SW-846 methods Method 8240 for volatiles; Method to be utlized include: 8270 for semivolatile; methods for other parameters should be specified. All samples from the 0 to 6 inch interval shall be collected using a stainless steel trowel. samples from 6 to 12 inches shall be collected using a stainless steel hand bucket auger. The sampling equipment shall be cleaned prior to use and between the samples. permittee shall use the following sequence for decontamination of sampling equipment.
  - 1. Non-phosphate detergent and tap water rinse.
  - 2. Tap water rinse.
  - 3. Distilled/deionized water rinse
  - 4. 10% nitric acid rinse.
  - 5. Distilled/deionized water rinse.
  - 6. Acetone (pesticide grade) rinse.
  - 7. Total air dry.
  - 8. Distilled/deionized water rinse.
- d) The permittee shall analyze all samples collected to a depth of 0 to 6 inch from the ground surface for the Target Compound List (TCL) metals, and petroleum hydrocarbons. samples collected to a depth of 6 to 12 inches shall be analyzed for TCL volatile organics plus 10 peaks. samples must be accompanied by full chain of custody record to ensure legal integrity of the samples and the data generated. All field methods and analytical tests shall be in accordance with applicable NJDEP or USEPA procedures of be reported 3rd edition. Data results must according to the latest version of USEPA CLP-Tier I format deliverables requirements if SOW Organics and Inorganics Analysis is utilized. If 3rd edition SW-846 methodologies are used, then at a minimum, results must meet the

deliverables format requirements as specified in the 3rd edition SW-846.

- e) The initial comprehensive analyses shall serve to establish background levels of the TCL metals and petroleum hydrocarbons, and the TCL volatile organics plus 10 peaks in the soil at the site as well as the existing soil contamination conditions.
- f) Beginning one (1) year from the initial soil sampling date, and on an annual basis thereafter the permittee shall repeat the soil sampling and analyses program for soil samples S1, S2, S3 and S4 specified in paragraphs a through d of this Condition 7 of Section II above.
- g) Two (2) copies of a written report of the finding of the analyses of these soil samples shall be submitted to the Department within sixty (60) days of the date samples were taken. If, after review of the results, the Department determines that contamination exists in the soil, the permittee shall submit a cleanup plan within sixty (60) days of notification of the Department's determination. The cleanup plan shall include the following information:
  - A detailed description of the most practicable method cleanup of the facility;
  - 2) A time schedule for implementation of the cleanup plan;
  - 3) A description of the procedures that will be used to prevent future soil contamination, if applicable;
  - 4) A compliance schedule for implementation of a ground water monitoring system in accordance with N.J.A.C. 7:14A-6 to determine if contamination has entered the ground water.

Upon approval and acceptance of the cleanup plan by the Department, the permittee shall implement the cleanup program within 30 days after being notified.

h) The facility owner shall notify the Department at least two (2) weeks in advance of each soil sampling date so that a representative of the Department may be present to audit the soil sampling procedure.

DOCUMENT: AT&T10 FOLDER: HWEMCB

V. d Branchistan

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NUS CORPORATION AND SUB	SIDIARIES		TELECON NOTE
CONTROL NO.:	DATE:	TIME:	
	10/11/89		·
02-8909-14	10/11/67	16	25 .
DISTRIBUTION:	11		
ATET BELL LARS -	- HOLMDEL		
BETWEEN:	l OE:	I PU	ONE:
WATERCLERK	W 1	VATER DEPT	
	/ IATAWAD C	DATE:	(201)290-2002
AND:			
JIM FROST, NUS			(NUS)
DISCUSSION:	1 1 1 .	11 11-A	-
Afterseleng t	he clerk said	the Pale	wan
After seleno t	wout rosining	valerit:	2500
and a	- James De		/
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ACTION ITEMS:			•
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Providence of

INCIDENT REPORT BY:					
Name			<i>2</i> /	01-564-26	
Street			Phone	<u>ع ر ت</u>	77
City	<del></del>				
Affiliation/Title 197	T Rall	State			
				****	
INCIDENT LOCATION:				:	
Name (Ste): Holondo Street <u>Crawford</u>			<del></del>		
					<del></del>
cm Holmdel			2276 State	Zip Code	<del></del>
Date of Incident: 3 - 2	Time:	1437			
IDENTITY OF SUBSTAN	ICE(8) SPILLED, REL	EASED, ETC.:	Suspected	Unknown	
Hame of Substance(s) (Gas. L	iquid, Solid: Kec	OSENE + G	csolena		
Amount Released/Spilled 1			Estimated	Substance Contained	YNU
Type of Release/Spill:		Continuous	Intermittent	Hazardoue Meterial	YNI
INCIDENT DESCRIPTIO			•		
Fire Expi	osion Air Rei	X_ Sp# _	ww	Derailment	Smoke/Dus
Odors Sewi	ngo NJPDES	Noise	Wildlife	Hegel Dumping	Drume
Equip Start-Up/Shutdo	wn, Equip Fail/Upeat, etc			· · · · · · · · · · · · · · · · · · ·	
Other (specify)					7 .
injuries Y 🕅	D U	Public Expe	N Y enuec	u	
Pacifity Evacuation Y	<b>D U</b>	Fire Depart	ment at Scene Y N	U	WATER AND
Population Evacuation Y		Police at &			ं के भी <del>का</del> गी। 148 (20 के के
Potable Water Source Y ()			Requested - Y H	U	
Continuition of Air _		-		-	
Receiving Weter POSS.			don/Speed		٠.
Location Type: Resident					
STATUE AT INCIDENT SCEN	1 2011 TEST	- O + /	showed C	On TRIPIA	· -
NESCOO	to Chan	ger Rinke	which I	the demo	and a
JYE I VE ()	CEAN-UP				
RESPONSIBLE PARTY:	Suspects	id Unknov	m ·		
Company Name		Phone	)		
Cortect	22 clone	Title			
Street	······································				•
City		County	State	Zip Code	*i.r
		<del> </del>			
OFFICIALS NOTIFIED (	Name/Title):				
NJBP:		Phone	Date/Tir		(TAG)
kacel Healths		Phone	Date/Tin		(TAA)
Local Munic	/	Phone	Date/Tin		(TAA)
WEX.		Phone	Dete/Tim	<b>-</b>	(164)
INCIDENT REFERRED	<b>TO:</b> .				
DEQX_ DWR _	DSWM DHSI	и <u>X</u> DHWM <u> </u>	DOH DFG _	DPF DCJ	DCF
Region: Northern				BN: _X_	
1. Name/A/N The	1000		Date/Time .		(TAA)
2 Name/AMI	d 03/28/87@	Phone	Date/Time	<u> </u>	
3. Name/A/R		Phone	Date/Time .	/	_mag*
DEP RESPONSE - E	imergency Immediate	Pitority No Re	sponeé .		1

### INVESTIGATION

CASE: #89-03-07-1027 DATE: 03-30-89

DHWM FILE: 13-18-06

INVESTIGATOR: Todd King

LOCATION: AT&T - Bell Labs

ADDRESS: Crawford Corner Road

Holmdel, Monmouth

TELEPHONE: (201) 564-2656

EPA ID NUMBER: NJD011328887

LOCAL HEALTH DEPT. REP.: Larry Kosica ORIGIN OF COMPLAINT: Ed Nowak - AT&T

NATURE OF COMPLAINT: Possible LUST

### FINDINGS:

Arrived on-site and met with George Bogden, Senior Plant Engineer. He stated that on 3-8-89 a 550 gallon underground kerosene tank was removed and in the process another 550 gallon abandoned gasoline tank was encountered and also removed. Work was performed by IT Corporation. Contamination was noted in the excavation and samples were taken. Results came back with contamination as high as 7000 ppm. Plastic was placed in pit and then backfilled to await further remediation. Mr. Bogden stated that he was awaiting DEP recommendations. I stated that the State uses 100 ppm to clean up and that he should contact IT Corp. for further cleanup. He stated he would.

Issued NOV for N.J.S.A. 58:10-23.11c - Discharge of hazardous substances.

Left site.

Investigator Signature

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# NEW \_RSEY DEPARTMENT OF ENVIRONMENTAL PROJECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT

Two Bivers Professoral Blog East worder AT (35 20)
NOTICE OF VIOLATION

ID NO. 1970 (1/328)87 DATE 3/36/39
NAME OF FACILITY ATAT Bull labe - Helphole Field
LOCATION OF FACILITY Keberk Roll Stalmoll 15 07733
NAME OF FACILITY Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Roberts Rober
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.
DESCRIPTION OF VIOLATION
* NJSA 5810-33.11c discherge at a hazardon
substance.
(* petrokum hydruster contractor in excented tout
<u>'</u>
Remedial action to correct these violations must be initiated immediately and be completed by  Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.
Investigator, Division of Waste Management Department of Environmental Protection TODD KING  Gray 406-0000  Flank F. W. Mart

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED



AT&T Bell Laboratories

101 John F. Kennedy Parkway Short Hills, New Jersey 07078-0905 201 564-2000

April 7, 1989

Mr. Todd King Central Bureau of Field Operations Twin Rivers Professional Building East Windsor, New Jersey 08520

Re: AT&T Bell Laboratories - Holmdel Facility

Notice of Violation

Dear Mr. King:

This is in reference to the Notice of Violation issued by you to the AT&T Bell Laboratories (AT&T-BTL) - Holmdel facility on March 30, 1989 for alleged discharge of a hazardous substance. This release was associated with the removal of a 550 gallon kerosene underground storage tank and a 550 gallon gasoline underground storage tank. The following summarizes discussions you had with Mr. George Bogdan, of the Holmdel facility, and Mr. Edward Nowak of my office which explain the background and our plans to remediate the problem.

On March 27, 1989 at 9:30 a.m., the AT&T-BTL notified the NJDEP Bureau of Underground Storage Tanks (BUST) (David Rubin) to report soil contamination associated with the removal of a 550 gallon kerosene tank and a 550 gallon gasoline tank at the AT&T-BTL Holmdel facility. The removal program was initiated on February 8, 1989 originally to address the kerosene tank (E1). During its removal an abandoned gasoline tank of the same size was found and included in the removal. Once the tanks were removed from the ground, kerosene contaminated soil was noticed. It was unclear if the contamination occurred during the tank removal project or existed prior to the removal operation. Overhead piping which are in service required the kerosene tank to be pushed forward and then lifted. have aggravated the integrity of the tank possibly causing the spill. The contaminated soil was removed and soil sampling was conducted for total petroleum hydrocarbons at the kerosene tank site and volatiles (BTX) at the gasoline tank site. The entire excavated area was lined with plastic and backfilled for safety The analysis which AT&T-BTL recently received showed total petroleum hydrocarbons over 100 ppm at the 4 sampling locations and one sampling location with BTX over 1 ppm at the qasoline tank site.

NJDEP BUST was informed that the site will be reexcavated to remediate the site. This includes additional soil sampling and analysis.

Mr. Rubin instructed AT&T-BTL to complete the tank removal notification forms which he will mail. In addition, he stated that the NJDEP tank removal forms should have been forwarded 30 days prior to tank removal projects. He was informed that the Underground Storage Tank Hotline was contacted approximately two months prior to the removal project to determine what notification, if any, was required for tank removal. The Hotline, at that time, did not mention any removal requirements. Mr. Rubin stated that the policy is recent.

Following our discussions with the BUST, the DEP Hotline was called to report the contamination (case # 89-03271027).

A meeting was held with IT Corporation on April 6, 1989 to discuss a scope of work for cleanup activities for this site. It is our understanding based on your telephone discussion with Edward Nowak, that the Central Bureau of Field Operations will coordinate this project for NJDEP. Therefore, once a scope of work is prepared a copy will be forwarded to you for your comments.

If you have any questions, please contact me at (201) 564-2632 or Edward Nowak at (201) 564-2645.

Very truly yours,

Paul E. Wyszkowski, P.E.

Manager

Environmental Management Department

· company

No. of Asses

# DIVISI OF HAZARDOUS WASTE MANAGE INT HAZARDOUS WASTE INSPECTION REPORT

DWM-029

# HAZARDOUS WASTE PERMIT FACILITY INSPECTION REPORT FACILITY INFORMATION

FACILITY NAME: AT &T Bell Labs.
FILE NUMBER:
VHT FACILITY FILE NUMBER:
PERMIT #: 13/8 G / 11/0/
REGION: C
INSPECTION DATE: March 31, 1989
INCIDENT/CASE NUMBER:
INSPECTION TYPE: RCRA TSD Permit
RESPONSIBLE AGENCY CODE:
INSPECTOR'S NAME: Peter Mai-uhnic
INSPECTOR'S AGENCY: DEP
INSPECTOR'S BUREAU: Field Operations
EPA ID NUMBER: NJD0//328887
ADDRESS: Crawfords Corner Rd
Holmdel NJ 07733
LOT: 38 BLOCK: //
COUNTY: Moumouth
FACILITY PERSONNEL: Edward Nowak Env. Mag. Sp. William Havel Dane Martindell Plant- Oper Su
TELEPHONE #: $(201) 564 - 2645$
OTHER STATE/EPA PERSONNEL:
$\rho$
REPORT PREPARED BY: Peter Maruhnic
REVIEWED BY:
DATE OF REVIEW: 4-11-87

PHOTOS T EN:	() YES ( <u>\vert \</u> )	NO			
SAMPLE TAKEN:	() YES ( <u>\vert_</u> )	NO NO			
If yes, how ma	ny?				
NO. OF SAMPLES:		NJDEP ID #:			
MANIFESTS REVIEWED: () YES () NO					
Number of Manifests in Compliance:					
Number of Mani	fests Not in Co	ompliance: None			
List Manifest	Document Number	rs of Those Manifests No	t in Compliance:		

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# HAZARDOUS WASTE FACILITIES WHICH HAVE BEEN ISSUED A FINAL PERMIT

### INSPECTION REPORT

MOTE: The inspector shall develop and implement an inspection form which addresses specific permit requirements. This specific form will be used in conjunction with the materials contained herein.

## SUMMARY OF FINDINGS

## FACILITY DESCRIPTION AND OPERATIONS

aT&T Bell Fator at the Crawfords Corner Rd
in Holmdel has been operating since 1962.
They employ about seven thousand people
who work in a three story building
of over one million iqual feet floor space
All work in communications related
usearch and developments which includes
work on micro chips crystals, printed
secuits and computer software.
Their final permit was issued will
effection date of Dec 23,1988 and with
expuistion date of Der 23, 1993.
a site specific inspection checklist
was developed and used to carry
out the present RCRA impaction.
at & Bell Jobs receiver and stores
on site bosondour waste generated at
company owned off site facilities.
They transport there waster using their own while having a Solid Waste Permit
No NJSW 1211AA.
No hazardour waster are disposed of
on site.

### SUMMARY OF FINDINGS

FACILITY	DESCRIPTION	AND	OPERATIONS
	<del></del>		
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## SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS
•

Describe the activities that result in the generation of hazardous waste.
after experiments later are cleaned out of chemicals
and solvents and stored in 55 gal dumm.
Paint thinner from point shop.
R + D on printed circuits modure waste etching
rotations and courter (commoneum hydroxide)
Waste oil from servicing company owned
whicher and revoce marking. (-Soun mouses e
Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)
3100 gal in 6,000 gal touk - last addition in 9-30-86
Ringe water, mixed aqueous worter ×900
Dum Storage area
1 x 5 5 gal steel drum Flammable paint thinner DOCI
1 x 55 gal steel drum Hon chloringted solvent Foo 3
1 4 55 gal steel aum Mixed chloringted solvents Fooz
1 x 55 gat steel dum Waste corrosive solid DOOZ
Inventory of hazardour waster stored in
Room Vol for acids and oxidizers,
Room Vor for courtier and cyanider and
Cobinet near Rooms No! + NOZ for flammable
and reactives is attached to this report.

			YES NO N	:/ <u>A</u>
	7:26-9:4(5)	WASTE ANALYSIS		
	7:26-9.4(5)11	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis must contain all the information necessary for proper treatment, storage or disposal of the waste).	<u>/</u> _	
	7:26-9.4(b) liii	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one:  Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous		
)-wince	7:26-9.4(b)2	Is there a written waste analysis plan at the facility?		
		Does it contain:		
Ny, ander	7:26-9.4(5)21	Parameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters?	<u>/</u> _	
	7:26-9.4(b)2ii	The test methods which will be used to test for these parameters?	<u> </u>	
Amount	7:26-9.4(5)2111	The sampling method which will be used to obtain a representative sample of the waste to be analyzed?	<u>/</u> _	
Copper	7:26-9.4(b)21v	The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and upto-date?	<u>/</u> _	
	7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?	<u> </u>	
	7:26-9.4(b)2v11	Procedures which will be used to identify changes in waste stream characteristics?		
	7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?	<u> </u>	
Acres (Marketon		If yes, when was the plan submitted?	Aug 1	987

The WAP is being reviewed by the Dep. at Present.

			YES	<u> 70</u>	$\frac{N/A}{}$
	7:26-9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?	<u> </u>		******
		Does the plan describe:			
	7:26-9.4(b)41	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?	<u> </u>		
	7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?			
	7:26-9.4(c)1	Did the facility accept hazardous waste which it is not authorized to handle?		2	127
-	7:26-9.4i	Are all records and results of waste analysis performed pursuant to NJAC 7:26-9.4(b), 9.4(e) and 10.1 et seq applicable written in the operating log?	<u>/</u>		

the facility?

.. 422 2

		YES	70	$\frac{N/A}{}$
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	_	/	
7:26-9.4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	\ <u>\</u>	/ 	
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?			
7:26-9.4(f)6	Does the owner/operator record inspections in a log?	<u>~</u>	/ 	
	Are these records kept for at least three (3) years from the date of inspection?	<u> </u>	<i>i</i> <del></del>	
	Does the record include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	V	<u> </u>	

						•
	7:26-9.4(g)	Personnel training				
···		Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?	<u>/</u>		-	
	7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	<u> </u>		_	
	7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review or training?	<u> </u>		_	
****		Is there written documentation of the following:			_	
	7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	<u>/</u>		_	
No. of Concession, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Street, Name of Str	7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	<u>~</u>		_	
******	7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u>/</u>		-	
	7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	<u> </u>		-	<del></del>
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for 3 years from their last date of employment?	<u> </u>		-	
gagaran.	7:26-9.4(g)8	Are semiannual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		<u> </u>	· -	
		If no, did the owner or operator petition the Department for exemption?		_	- -	

SMEE LE

		V	EC 3:0	Nº / A	
-	7:26-9.4(g)8i	From the semiannual drill requirements an exemption	<u>ES %0</u>	N/A /	
independent	7:26-9,4(g)8ii	From the involvement of some or all local officials in the semiannual drill, providing the Department has received their written permission.		<u>/</u>	
-	7:26-9.6	Preparedness and prevention			
	7:26 <b>-9.6(b)</b>	Does the facility comply with preparedness and prevention requirements including maintaining:			
	7:26-9.6(b)1	An internal communications or alarm system?	<u>/</u>		
gagare-	7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	<u>/</u>		
nganar-	7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?	<u> </u>		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	_/		
	7:26-9.6(c)	Is equipment tested and maintained?	<u> </u>		
سيي	7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?	<u> </u>		
	7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fore protection equipment, spill control equipment and decontamination equipment?	1		
		If no please explain.			
معمد		In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<u>/</u>		
		Explain.			
	7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site?		-	
	7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	_	-	

	7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement esignating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?	<u>/</u>	 
umania.	7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	<u>✓</u>	 
	7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	<u>√</u>	 
	7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?	<u> </u>	 
, portion de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della constantina de	7:26-9.6(f)6	Has the facilaity documented when local authorities (i.e., hospitals, police and fire departments) declined to enter into the arrangements noted in (f) through (s)?	_/	 

		YES	3	<u>NO</u>	N/A	
_	7:26-9.7	Contingency plan and emergency procedures				
and the second	7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?	<u> </u>	, - —		_
au de de la constante	7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	_/	, 		_
- Laboratoria	7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	<u>/</u>	, - —		_
, piggatinis.	7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	, 	············		
n and the second		If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	<u>~</u>	/		
armaner .	7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?	<u>/</u>	/ - <del>-</del>		
	7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons				

qualified to act as emergency coordinator and is this list kept up-to-date? Where more than

one person is listed, one shall be named as primary emergency coordinator and others shall

assume responsibility as alternates.

7:26-9.7(g)

Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external, and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?

7:26-9.7(h)

Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in case where the primary routes could be blocked by releases of hazardous waste or fires)?

7:26-9.7(i)

Is copy of the contingency plan and all revisions to the plan:

- 1. Maintained at the facility; and
- 2. Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams)?

7:26-9.7(k)

Is there an employee on-site or on call at all times with the responsibility for coordinating all emergency response measures?

Closure plan	YES NO	<u> </u>
Does the facility have a written closure plan?	<u> </u>	
Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	<u> </u>	
If yes, does the plan include:		
A description of how and when the facility will be partially closed (if applicable) and ultimately closed?	<u>/</u> _	
The maximum extent of the operation which will be open during the life of the facility?	<u> </u>	
An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	<u>/</u> _	
A description of the steps needed to decontam- inate facility equipment during closure?	<u> </u>	
A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?		
	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?  If yes, does the plan include:  A description of how and when the facility will be partially closed (if applicable) and ultimately closed?  The maximum extent of the operation which will be open during the life of the facility?  An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?  A description of the steps needed to decontaminate facility equipment during closure?  A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and inter vening milestone dates which will allow	Does the facility have a written closure plan?  Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?  If yes, does the plan include:  A description of how and when the facility will be partially closed (if applicable) and ultimately closed?  The maximum extent of the operation which will be open during the life of the facility?  An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?  A description of the steps needed to decontaminate facility equipment during closure?  A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and inter vening milestone dates which will allow

SAFE 10

		YES	<u> </u>	$\frac{N/A}{}$	
	Post Closure Plan				
7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility?		<u> </u>		
	If yes, does the plan:				
7:26-9.9(1)	Identify the activities which will be carried on after closure and the frequency of these activities?				
7:26-9.9(1)1	Include a description of the planned ground- water monitoring activities and frequencies at which they will be performed?			*******	
7:26-9.9(1)2	Include a description of the planned main- tence activities, and frequency at which they will be performed, to ensure the following:				
7:26-9.9(i)2i	The integrity of the cap and final cover or other containment structures where applicable?				
7:26-9.9(1)211	Describe the function of the facility monitoring equipment?				
7:26-9.9(1)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?				
	Does the owner/operator have a written estimate of the cost of post-closure for the facility?				
	If yes, what is it?				

Please circle all appropriate activities and answer questions in appropriate sections for all activities circled.

Storage	Treatment	Disposal
Container	Tank	Landfill -
(Tank, above ground)	Surface Impoundments	
Tank, below ground	Incineration	Surface Impoundments -
Surface Impoundments	Thermal Treatment	Other
Other	Chemical, Physical and Biological Treatment - pg. 25	
<del>-</del>	Other	

If no, explain.

contain hazardous waste?

weld, hinge and seam strength, and of sufficient material strength to withstand side and bottom shock, while filled, without impairment of the container's ability to

		YES NO N/A
7:25-9.4(d)lii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	<u> </u>
	If no, please explain.	
7:26-9.6(e)	Adequate aisle space (18") to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	<u> </u>
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	<u> </u>
-7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.	
7:26-9.4(d)3	Are hazardous wastes stored in containers made of compatible materials?	<u> </u>
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	<u> </u>
	If no, explain.	
_7:26-9.4(d)4111	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	<u> </u>
	If no, explain.	
-7:26-9.4(d)4iv	Are containerized hazardous wastes segregated in storage by waste type?	<u> </u>
_7:26-9.4(d)4v	Are containerized hazardous wastes arranged so that their identification label is visible?	<u> </u>
7:26-9.4(d)5	Does the owner/operator inspect and document the contianer storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	<u> </u>
7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	<u> </u>
7:26-9.4(d)7i	Are incompatible waste, or incompatible wastes and materials placed in the same container?	
	If yes, explain.	

		YES	<u>%0</u>	<u>N/A</u>
7:26-9.4(d)7ii	Are hazardous waste placed in unwashed containers that previously held incompatible wastes?		_	
	If yes, explain.			
7:26-9.4(d)71ii	Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated			•
_	from the other materials or protected from them by means of a dike, berm, wall or other device?	<u>/</u>		
_ 7:26-9.4(e)1i	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	<u>/</u>		
_	If no, explain.			
_	•			
7:26-9.4(e)lii	Does the owner/operator confine smoking and open flames to specially designated locations when ignitable or reactive wastes are being handled?	<u> </u>		
	If no, explain.			
7:26-9.4(e)liii -	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?	<u>/</u>		
	If the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	<u>/</u>		
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	<u>/</u>		•••••
7:26-9.4(e)2iii -	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	<u>/</u>		
7:26-9.4(e)21v	Damage the structural integrity of the device or facility containing the waste?			سيب

			YES NO N/A
	7:26-9.4(e)2v	Threaten human health or the environment?	<u> </u>
	7:26-10.5	Tanks	x Goodgal vaulted teel tank.
		of tanks containing hazardous waste?	teel tank. Vaste riuse waters Stored in tank
}	7:26-10.5(b)1	Are tanks of sufficient shell strength and, for closed tanks, do they have pressure control to assure that they do not collapse or rupture?	
	7:26-10.5(c)1	Are wastes stored which are incompatible with the materials used in construction of the tanks?	
	7:26-10.5(c)2	Are there controls to control:	
)	7:26-10.5(c)2i 7:26-10.5(c)2ii	Overfilling (ie. waste feed cutoff system). For uncovered tanks, is there at least 2 feet (60 cm) of freeboard or an amount of freeboard which is acceptable to the Department? (Documentation required)	
	7:26-10.5(d)1	Do aboveground storage tanks have containment systems capable of collecting and holding spill leaks and precipitation?	s, <u>/</u>
_	7:26-10.5(d)1i	Is the base underlying the tanks free of cracks or gaps and impervious to certain spills, leaks and accumulating rainfall until it is collected	
-	7:26-10.5(d)lii	Is the containment system compatible with the wastes being stored?	<u> </u>
_	7:26-10.5(d)liii	Is the containment system sloped or designed to efficiently drain and remove liquids resulting from leaks, spills and precipitation? Are tanks protected from accumulated liquids?	
properties.	7:26-10.5(d)lv	Is the containment system of sufficient capacit to contain ten percent of the volume of all tanks or the volume of the largest tank, which- ever is greatest?	
	7:26-10.5(d)2	Is runon into the containment system prevented?	<u> </u>
,	7:26-10.5(d)3	Is accumulated precipitation removed from the sump or collection area in a timely manner?	<u> </u>
	7:26-10.5(d)4	Is spilled or leaked waste removed from the sump or collection area daily?	<u> </u>

			YES	<u>70</u>	<u>N/A</u>	
	7:26-10.5(e)li	Is overfilling control equipment inspected daily?	<u> </u>			
e <sup>rre</sup> ere	7:26-10.5(e)lii	Is data from monitoring equipment reviewed to assure the tank is operating according to its design?	<u>/</u>		-	
	7:26-10.5(e)1iv	Is the level of waste in the tank checked each operating day?	<u>/</u>		_	
v	7:26-10.5(e)lv	Are the construction materials of the aboveground portion of the tank checked for corrosion or leaks each operating day?	<u> </u>			
	7:26-10.5(e)lvi	Is the area surrounding the tank checked each operating day for signs of leakage?	<u>/</u>			
passene.	7:26-9.4f6	Are records and results of these inspect- ions written in the operating log? Are ignitible or reactive wastes placed in a tank?	<u>/</u>	_	-	
***************************************	7:26-10.5(1)11	If yes, was it rendered to no longer meet the criteria of ignitible or reactive wastes pursuant to NJAC 7:26-8.9 or 8.11.				
-		or				
	7:26-10.5(1)111	Is it stored or treated in such a way that it is protected from any material or conditions which may cause it to ignite or react.				
		or	/			
-	7:26-10.5(i)liii	The tank is used solely for emergencies?			_	_
	7:26-10.5(j)1	Are incompatible wastes placed in the same tank?		<u>/</u>	***	
	7:26-9.2(b)	Are there underground tanks used to store hazardous waste?		<u>/</u>	_	
Villeydo	· ·	If yes, how many and can they be entered for inspection?				
يدجمتني		What is the tank capacity and waste material is stored?			_	<u>/</u>
None		Has the underground tank been in use on or before November 19, 1980? Specify date.			_	_
		If no, when was the tank placed in use?				

....

			ns		
		v	YES	NO N/	A
	7:26-9.2(b)31	Does the facility have a groundwater monitoring plan approved by the Department?	<u>h</u>	+ 5	e quire a
	7:26-9.2(b)311	Is the use of the tank specified to the manufacturer's recommended lifetime?			V
	7:26-10.5(e)6	Are the underground tanks subjected to periodic integrity testing?			<u>~</u>
	7:26-10.6	Surface Impoundments V/A			
••••		Describe the design and operating features of the surface impoundment to prevent groundwater contamination (e.g., liner leachate collection system).			
AN PARAME		Give the approximate size of surface impound- ments (gallons or cubic feet). Please specify the types of waste stored and treated.			
	7 04 10 44 10				
	7:26-10.6(e)2	Is there at least 2 feet of freeboard in the impoundment?			
	7:26-10.6(c)4	Do all earthen dikes have a protective cover to preserve their structural integrity?	_		
		If yes, please specify the type of covering.			
	7:26-9.4(b)1	Does the owner/operator have a detailed chemical			
		and physical analysis of a representative sample of the waste in the impoundment?			
	7:26-9.4(c)2	Does the owner/operator place the results from each waste analysis and trial test, or the			
		documented information, in the operating record of the facility?			
	7:26-10.6(f)	Does the owner or operator inspect each operating day?			
	7:26-10.6(f)21	The freeboard level at least once each operating day to ensure compliance with subsection			
		10.6(e)2?			

The surface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks, deterioration or

failures in the impoundment?

7:26-10.6(f)2111

#### Thermal Treatment

N/A

What type of thermal treatment is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.)?

List the types and quantities of hazardous waste thermally treated.

Is the residue from the thermal treatment unit a hazardous waste?

What types of air pollution control devices (if any) are installed in the thermal treatment unit?

#### SITE SPECIFIC RCRA INSPECTION CHECKLIST FOR:

AT&T Bell Laboratories Crawfords Corner Road Holmdel, NJ 07733 Permit #1318G1HP01

		Yes	No
1.	Monitoring and Records - Condition 10 - Section I		
(a)	Are records retained of all monitoring information, copies of all reports required by this permit, for a period of at least three years from date of the sample, measurement, report or application?	<u> </u>	
(b)	Is the following information included in the monitoring records:		
	<ol> <li>The date, exact place and time of sampling of measurement?</li> <li>The individual(s) who performed the sampling or measurement?</li> <li>The date analyses were performed?</li> <li>The individual who performed the analyses?</li> <li>The analytical technique or methods used?</li> <li>The results of each analysis?</li> </ol>	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
2.	Authorized Activities - Condition 2 - Section II		
(a)	Container (Drum) Storage		
1.	Are spent etching solution, paint thinner waste, and spent solvent that are generated on-site as well as wastes generated at company-owned off-site locations stored on the diked concrete pad (14' 2" L x 39' 6" W x 6" H)?	<u> </u>	***************************************
2.	Are the containers stored within the diked area on wooden pallets?	<u> </u>	
3.	Are no more than 935 gallons of liquids contained in $17 \times 55$ gallon containers or equivalent volume of 30 gallon drums in storage?		
(b)	Small Container Storage		
1.	Are 40 gallons of liquids, semi-solids, semi-liquids or solids in plastic or glass bottles, jugs, jars, etc. stored in a cabinet in masonary room No. 1 for acids and oxidizers?		

2.	Are 40 gallons of liquids, semi-solids, semi-liquids or solids in plastic or glass bottles, jars, jugs, etc. stored in a cabinet in masonary room No. 2	Yes	No
	for caustics and cyanides?		
3.	Are 15 gallons of liquids, semi-liquids, semi-solids or solids in plastic or glass bottles, jars, jugs, etc. in a cabinet near masonary rooms #1 and #2 for compatible flammable and reactives?	<u>/</u>	
(c)	Tank Storage		
1.	Does the permittee store hazardous waste generated from cleanup of laboratory equipment in a 6000 gallon 0.167 inch minimum shell thickness lined carbon steel tank which sits in a roofed concrete vault with a tank area of 11' 0" L x 21' 0" W x 12' 5" H and a concrete base of a minimum 6 inches thickness?	<u>/</u>	
2.	Does the permitted use the waste pouring station and associated piping leading to the tank for transfer of wastes from containers into the tank?	<u> </u>	
3.	Is this transfer performed manually and the tank contents pumped out for off-site treatment or disposal when the capacity reached approximately 5000 gallons?	<u> </u>	
4.	Is the lid in the pouring station kept in the closed position when waste transfer operations are not being conducted?		
5.	Is base of the containment vault free of gaps and cracks?	1	
3.	Permitted Waste Types - Condition 3 - Section II		
(a)	The permittee is authorized to store the following types of on-site generated wastes, as well as wastes generated at company-owned off-site locations, in 55 gallon or 30 gallon containers at the facility.		

#### NJDEP Hazardous Waste NOS

D001	Ignitable				
D002	Corrosive				•
F001	Constituents	listed	in	N.J.A.C.	7:26-8.13(a)
F002	Constituents	listed	in	N.J.A.C.	7:26-8.13(a)
F003	Constituents	listed	in	N.J.A.C.	7:26-8.13(a)
F004	Constituents	listed	in	N.J.A.C.	7:26-8.13(a)
F005	Constituents	listed	in	N.J.A.C.	7:26-8.13(a)

Authorized waste types which may be stored in small containers (bottles, jars, jugs, etc.) at the indoor small containerized waste storage areas:

D001	Ignitable
D002	Corrosive
D003	Reactive (Potassium Borohydride, Rubidium, Barium,
	Sodium in Solvent, Calcium Turnings, Magnesium Powder)
D004	EP Toxic Arsenic
D005	EP Toxic Barium
D006	EP Toxic Cadmium
D007	EP Toxic Chromium
D008	EP Toxic Lead
D009	EP Toxic Mercury
D010	EP Toxic Selenium
D011	EP Toxic Silver
F001	Constituents listed in N.J.A.C. 7:26-8.13(a)
F002	Constituents listed in N.J.A.C. 7:26-8.13(a)
F003	Constituents listed in N.J.A.C. 7:26-8.13(a)
F004	Constituents listed in N.J.A.C. 7:26-8.13(a)
F005	Constituents listed in N.J.A.C. 7:26-8.13(a)
F007	Constituents listed in N.J.A.C. 7:26-8.13(a)
X721	Waste automotive crankcase and lubricating oils.
X725	Oil spill cleanup residue which: A. is contaminated
	beyond saturation; or B. the generator fails to
	demonstrate that the spilled material was not one of the
	listed hazardous waste oils.
X726	The following used and unused waste oils: Metal working
	oils, turbine lubricating oils, diesel lubricating oils;
	and quenching oils.
X727	Waste oil from the draining, cleaning or disposal of
	electric transformers with PCBs less than 50 ppm.

"P" Code

Numbers Any discarded commercial chemical products, off-

specification species, and spill residues thereof which

are listed in N.J.A.C. 7:26-8.15(e).

"U" Code

Numbers Any discarded commercial chemical products, off-

specification species, and spill residues thereof which

are listed in N.J.A.C. 7:26-8.15(f).

"C" Code

Numbers Any waste streams containing the hazardous constituents

under hazardous waste "C" Code Numbers listed in

N.J.A.C. 7:26-8.16(a).

The permittee must obtain necessary approvals from the USEPA before storage of polychlorinated biphenyl, N.O.S. under the C387 waste code if the concentration of PCBs is equal to, or in excess of, 50 ppm.

The permittee is also authorized to store in small containers non-hazardous waste being managed as hazardous waste under the following code:

NJDEP Hazardous	
Waste Numbers	Description of Hazardous Waste
X850	Packed laboratory chemicals
X900	Non-hazardous liquid waste
X910	Non-hazardous solid waste
X940	Poisons and pesticides, N.O.S.

The permitted is authorized to store in the tank laboratory rinse waters and aqueous wastes generated on-site from the research and development laboratories, as well as waste generated at company owned off-site location, which are hazardous for the following characteristics:

NJDEP Hazardous Waste Numbers	Description of Hazardous Waste
D002	Corrosive
D004	EP Toxic Arsenic
D005	EP Toxic Barium
D006	EP Toxic Cadmium
D007	EP Toxic Chromium
D008	EP Toxic Lead
D009	EP Toxic Mercury
D010	EP Toxic Selenium
D011	EP Toxic Silver

The permittee is also authorized to store in the tank non-hazardous laboratory rinse waters and other non-hazardous aqueous wastes not meeting the criteria of hazardous waste under N.J.A.C. 7:26-8.1 et seq., provided said waste managed as hazardous waste under the following code:

NJDEP Hazardous Waste Numbers	Description of Hazardous Was	te	
x900	Non-hazardous liquid waste		
		Yes	No
Are all wastes stored on-site	e authorized wastes?	<u> </u>	
If no, list those wastes not	authorized -		
		-	

#### 4. Waste Analysis and Quality Assurance Requirements

Does the permittee comply with the following requirements for Waste Analysis and Quality Assurance:

a. For each waste stream, the permittee shall complete an Unwanted Chemical Removal Tag or Spent Etching Disposal Tag. For each small container of hazardous waste to be stored in the cabinets, the permittee shall also complete a Waste Data Sheet (WDS). Each WDS, Unwanted Chemical Removal Tag and Spent Etching Disposal Tag shall contain, at a minimum, the same information as the sample forms provided in the Part B application cited in Condition 1(a) of Section II of this permit.

Yes No

b. For each waste, a Waste Chemical Management Facility (WCMF) Technician of AT&T Bell Laboratories shall review the information on the applicable WDS, Unwanted Chemical Removal Tag or Spent Etching Disposal Tag to determine appropriate classification and storage areas. If the waste meets appropriate classification and storage requirements as authorized by Conditions 2 and 3 of Section II, then the permittee may accept the container of waste for storage at the facility.

c. The waste need not be analyzed unless the permittee has reason to believe it is not as represented on the WDS, Unwanted Chemical Removal Tag or Spent Etching Disposal Tag.

**✓** 

d. The permittee shall review and update as necessary each tag on a yearly basis. Also, whenever a process generating a particular waste is changed, the WDS, Unwanted Removal Tag and Spent Etching Disposal tag for that waste shall be modified as necessary.

 $\checkmark$ 

e. Prior to the addition of any waste to the tank, the waste shall be tested for compatibility with the hazardous wastes already stored in the tank. Compatibility shall be determined by mixing 5 milliliters of the waste with 50 milliliters of the tank's contents to confirm the absence of gas evolution, fumes or changes in temperature. Incompatible wastes shall not be added to the tank.

 $\checkmark$ 

f. The permittee shall maintain a log book for the hazardous waste storage tank with a record of all additions: Date, waste type, quantity and the name of the person performing the addition.

 $\sqrt{\phantom{a}}$ 

				ies	NO	
g.	authorized off-site permittee shall coll	waste from the tank disposal facility, the lect a representative if for pH, arsenic, lead	e sample			
h.	h. Prior to the addition of any waste to a drum, the waste shall be tested for compatibility with the wastes already stored in the drum. The compatibility test shall be by the same method as described in Condition 4(e) of Section II above. Incompatible hazardous wastes shall not be added to a drum.					
í.	for the wastes store additions: Drum ide	maintain a separate 1 ed in drums with a recentification, date, was ne of the person perfo	ord of all ste type,	<u>/</u>		
j.	j. The permittee does not need to analyze the content of a filled drum provided the log book provides sufficient information to characterize the waste.					
k. All analyses on the waste performed by the permittee shall be performed in accordance with the Quality Assurance/Quality Control methods established by the Division of Hazardous Waste Management. A copy of all waste testing results shall be retained for a minimum of three years.						
5.	Inspection Requirement	ents				
	Are the items in the at the frequency st	e following table insp ated?	ected for			
a.	Container (Drum) St	orage Area				
Acti	vity/Equipment	Inspected For F	requency			
Cont	ainer Placement	Minimum 18" Aisle Neat, Stable	Daily	<u> </u>		
Cont	ainer Sealing	All Bungs and Covers	Daily	<u> </u>		
Cont	ainer Labeling	Labels Complete	Daily	<u>/</u>		
Cont	ainer Condition	Leaks, Deterioration	Daily			
Pad	Area	Cracks	Weekly			
Dike	walls	Cracks	Weekly	<u> </u>		

			Yes	No
Drain Valve	Operation and Position	Weekly		
Shower and Eyewash	Operational Condition	Weekly	<u> </u>	
Container Location By Type	Segregation Per Condition 3 for Section II	Daily		
b. Small Container Sto	rage Area			
Activity/Equipment	Inspected For	Frequency	/	
Container Labeling	Labels Complete	Daily		
Container Condition	Leaks	Daily	$\overline{\checkmark}$	
Container Sealing	Covers	Weekly		
Reservoir	Standing Leaks, Cracks	Weekly		
Container Location	Segregation Per Condition 3 for Section II	Weekly	_/_	
c. Tank Storage Area				
Activity/Equipment	Inspected For	Frequency	r	
Tank Condition	Leaks, Stains	Daily	<u> </u>	
Waste in the Tank	Level	Daily	<u> </u>	
Tank Shell Thickness	Shell Thickness	Every 3 Years	1	
Dike Walls	Cracks	Weekly		
Vault Base	Standing Water, Cracks	Weekly	<u>/</u>	
Pipes	Supported, No Leaks	Weekly	<u>/</u>	
Loading Pad Drain	Operational	Weekly	<u></u>	
Ladder and Platform	Structural Defects	Weekly		

#### d. Security

Activity/Equipment	Inspected For	Frequency		
Fence	Functional	Weekly	<u> </u>	
Lock on Gate of Fence	Position - Close or Open	Daily	<u> </u>	
If no, list those items	not inspected and t	the reason why:		
			Yes	No
Is a written log of all including date and time of the inspectors, and actions performed?	of each inspection,	, the names		

Peter Marchi 4-10-89

Hoids

Date		ainer	144	Waste	Date	Doc.
Stored	Vol.	Lbs.	Item	Туре	Removed	No.
3/3/38	6 6095	50165	Lead, In Filters	12008	4/11/88	
3/3/54	2	2/65	Copper Sille & Alaline Heads	D002		
3/30/83	2 x/1/b	2165	Amorion Persulfate	1000		
3/30/85		116	Kerrie Witmate			
3/30/48		116	Chronian Trioxida			
3/30/08	14	116	Potossin Dichromate			
7/10/38	12	116	Sodium Witrata			
3/30/88	22	165	Sodium Nitrita	V	V	
3/30/86	/ can	2165	Acid Salfs	P002	4/11/88	
6/9/88	1846	51bs	PHOSPHARE ACIL	0002	6/13/88	
6/9/87	1840	516s	to grade yorked cur	DOID	6/13/88	
10/14/8	7	AE	To in LAB PACK			
12/14/52	1 B 0X		UNACCEPTABLE NAT. 1	RON WE	Favidi=	see breadown be
12/11/28	/Box	116	trowns	x 940	12/27/88	
12/27/5			AETC IN FOR	LAB P	ack —	
1= 114/88	4 container	3/65	BeO	v 540		
* \	2 cont	5163	Thullium nitrate	u 217		
- 1	4 cont	13/2	Hg nitrato	100a		
	1 cont	116	Hg oxide	D009		
ł (	Icont	416	He chlorido	2000		
1 (	9 cont	9gm	Osmium totroxido	×940		
`(	Scont	5165	Vanadium pentoxido	6130		
, ,	1 cont	115	Zinc selenido	D0/0		
i,	((	10 m	Antimory telluride	X940		
- (	( )	1gm	Germanum sellenido	0010		
					1	
1/3/29	5165		A10, filer 2/0.1+7	×726	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	<b>F</b>

FR STORAGE LOG

	***	<b></b>		1		·	
	Date		tainer	Ttom	Waste	Date	Doc.
	Stored	Vol.	Lbs.		Type	Removed	No.
	1/3/89	Ancie	30gm	Col So			
	1/3/89		10gm	Cd Se			
	1/3/48		18m	Palladium Chlorido			
	1/17/89	3-1901	CAN	PURAFIL IF		3/27/19	
orane.	1117/89	) //	1 .	Enduar Eth		3/07/89	
	-						
	1/30/89	. 6	4	CLIQUIS TEFLOW COMPAN, WIT	0 C/2-		
	3/16/89	2cons	160111	CONATHANE PRATHY		3/27/49	
	3-16-89	7	9	NEUPAENE ADHESIVE	SOLID	3/27/19	
	3-16-89		9	COMPOXEY	VISCUD	3/27/19	
	3-16-89		100 gm				
	3-16-89		5,7.0	) V .			
-	- 11.89	techure	both(e	Nitryen Triflewide			
	3-16-89		116	Aumonum Persul At			
живаризах	3-16-59		116	Epoky Rosin			
**************************************	3-16-89	6x25m1		Chromium Trivido			
	3-16-89	18x 40gm	·	Polyunkar prepulyner			
_	3-16-49	4 worgan		Deljurethore preprier		3/27/49	<u></u>
	3-16-+9	,	116	5.1, come 0,1		3/27/19	
*******	3-16-89	1		pulyureThere			···
S-Amba-		Box-LARGE		PHOTO RITGIST	SOLID	3/27/89	
	3-23-89	2 * 2 '4 50	/	insecticido			
	3-23-49	lat		Brunine			•
	3-38-89		216	Cr 03			·
	3-24-88		3165	Liuxides + downto			<del></del>

\*

•			CONTAINER DIOLGGE IN	<u> </u>		
Date Stored	Cont Vol.	ainer Lbs.	Item	Waste Type	Date Removed	Doc.
3-23-89			GAS CYLENDER	GAS	3/27/89	
3/24/04		T	MERCURY		3 /0 //• /	
3-28-29	1		Merchay			
MANA		<b>Ø</b>	William .	THE TO		
3-18-59	1 PK	7	FILTEQ WOIL	SOLIU		
3-28-69	IPK	1	BROMINE ITEMS	SoLID		
alles.			Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Ma			•
3-2F-89		100giv)	KFeCN			
3-28-88	1 54	- 17	KFECN stear SiDa crydol solution			
3-28-89	29 biths	100m1	5,02 glass crystal solution			
3-26-49	اه د		\$70			
3-24-89		2. T5m	Cyano phenyl heptybenios			
3-28-89		Tyn	Cyanobenzlidene udyloxyo	_		
3-24-89		d x Tsm	Genophenyl buty benzoel	1		
1-24-19		JUTSM	Cholostery/ Ulzz/ Carbun	1		
3-24-69		JUTIM	Bis(heptylory) czo zybenz	1		
3-28-49		4x1gm	Methorybenzylidene buty	aniline		
3-28-44		10gm	D. bidyl Ferrocens			
3-78-62		55m	Penty lphenyl proylbenzail	5		
3-28-89		3/15	Cb205			
3-28-84		402	SiOs/methanol			
3-24-69		Syn	Khodina Joqueous			
			Combination .			
3-28-19	10 buttos		unknow /ch samples			
			/			

Date Stored	Cont Vol.	Lbs.	Item	Waste Type	Date Removed	Doc.
1/3/89		55m	Barrum Tetro cyunoplatinet	000		
1/3/89	Hex	416	Hg sultide	Doo		
	4		A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	5.	3/27/19	
		8			3/27/19	
			MANAGER	100	3/07/89	
1/5/8	195	1/6/5	. 190 AST. MAPIN CHARCOM		3/6/14	
1/9/88	1 BA9	10 USE!	LEAL FILTER WITH SH	onic Acl	3/4/49	
	1049		Polishing Pads with	in + GA	Num 3/6/89	
1/16/89	#4		SEATED MICKEL CADMIUM B	1		
1/16/29	1 PLATICE	1951bs	CONTAND STEP WITH MERCURY ZINC, CADWIM, TETTORYM			: i
1/10/89	2 y Ellow	BAJ	MERCURY CONTEMBRATED ITEM		8/27/29	
1/17/84	1 Black god	00 BOg	316's ARSUNIC		3/21/149	
1/17/89	1		MERCURY LAMP		3/27/89	····
1/17/19	y		BRIKENTHERMETER		3/27/89	
- //1/84	1 PACKAGE		CONTAINS MERCURY		3/27/19	
1/24/84	1 gol CAA	,	ASFIRE = Relais		3/21/49	
1-24-89	CONTAINE	2	BOTTLES/ TRACES		3/21/89	
1-24-89	1 GAL	4	ARSIENIC, DUST		3/21/89	
1-24-89	1QT	4	CHARCOAY W FTC. ETC	- APPOS S	3/4/19	
1.1331.69	ary seet,		STEELS LEL CHONING	e in the	3,	<del></del>
Maria -	Also .					
	15g/ C		Scholmaste with ARSEM		3/21/49	
2-6-89			MERCURIC SALTS	SOLID		•
2-6-89	1GAL	9	PHOTO RESIST	VISCED	Moved	
6-89	191	1	MICOULOSIT RESIST	219611)	to Flam Cab . wet	3/28/89
214/84	.9		SMAIL NICKE! - CADMIN BA	17		

Date	Cont	ainer		Waste	Date	Doc.
Stored	Vol.	Lbs.	Item	Type	Removed	No.
2-14-89	BAG	4,	BROMINE CONTAM. TIEMS	SOLID		
- 2 <u>-17-89</u>	IPT	473ML	FORMALDEHYDE SLN	LIQ	3/6/89	
2-17-89	197	946 ML			3/6/19	
- 2/20/81	1 GARBAYE CAN	2016)	USED COMPR FITTER WITH	VIFAIRS	3/4/19	
11	1601 pin	سم	Clothwith ZNSF GA AS du	Ti_	3/27/89	
//	BAG	4	MERCURY	SOLID	3/27/19	
_ //	BAG	1	11	//	3/27/49	
11	2 GAL		UNKNOWN	LIQ.	3/27/15	
	VIAL	2 cm	MERCURY	10	3/27/89	
11	3 GAL CAI	4	CLITH CONTAM, DUST	SOLID	(GONS)	
11	CAN	3	.5% AS/PHOS/CHARCON	SOLID	3/6/49	
	२ १ इ	2	, , , , , , , , , , , , , , , , , , ,	Solis	3/6/89	
2-28-89	1 GAL	2	BROMINE	SOLID	3/27/19	
	IGAL	2	CHROM IN SXXIVE	SILIU	Moves to Acid Room	3/28/89
2-28-89	279 8	41	DIMIETNYLFORMINE	210	3/6/89	··-
2-28-61.	1 QT	7	iı	11	3/6/89	
- 3-78-89	BAG	于	POT, FERR. SOD, HYD. RES	Sol.		
2-28-89	BAG	12	MERCURY CONT. ITEMS	504.	3/27/89	
- 2-38-89 B	BAG	10	ANARBLE CHIPS	SOL.	3/27/15	
3/10/89 3	2		BROKEN THENO.		3/27/89	
3/10/84	IGAI CAN		Cloth contaminary ZNS	GARS	3/27/09	
- 3/13/84	1 PlacTIC DA	15/6	POSITIVE PLOTURISIST		3/27/27	
All A	Menter .	BOX	MANIAN MARKALET			
- 3/17/89 /			TONER		3/21/89	
3-53-84		2	EPOXY	Viscus	3/27/19	···
11 1	4 GAL	16	Expen, Gas Scrubber	SOLID	3/27/89	<del></del>

# Flammable CONTAINER STORAGE LOG

	Date Stored	Cont Vol.	ainer Lbs.	Item	Waste Type	Date Removed	Doc. No.
3	10/88	4 1 1 1 6 2		Etch Rusist Sensitize.	x 850	4/11/18	
<b>.</b>	5/18/86	216		C/As/P	D001	12/27/88	
-	12/11/86	105m		Unlamous	1910	12/27/88	Moved to Corrosive
<b>)</b> -	4/6/87	1 .		Thotrum oxyHuar	d2940	to Acid s/16	
*	2/11/88	5/65		Aluminum Chido File	/P/C	1.700-0-	n 1/3/f
	3/2/86	2165		lag= u/ Loo-	DV6	-1/11/88	
	3/18/68	2 x 2165		c/ Organo petallics	P00 1	12/27/88	
	3/2/88	Isolcun	ılb	Kid Phosphorus	D60 (	8/12/88	
	3/43/88	Priol con	2165	O.I ul Tellurium	F003	4/11/88	
	3/24/18	160100	i	C / Accha a MeoH		4/11/88	
	3/24/18	Syolium	40 165	Positive Resist	4	4/11/88	
	3/30/88	1501+	19+	6.1	F002	4/11/88	
	3/30/88	2,116		Ceramic Adlesive		4/11/88	
	3/30/44	157	a 1bs	Epury Rosin	8	4/11/88	
	3/30/88	ナイベー	4 1bs	Thinner	b001	4/11/88	
	3/32/84	2 4 9 +	u lbs	Adhesive Coment	F002	4/11/18	
	3/30/14	·pT	116	Release Agent	D001	8/11/88	
+	7/25/88	'	602	Dowicido	X850		
	5/20/88	2/65		c/As/P	D001	12/27/88	
	7/12/88	100ml	116	DMF   FPA   Hy	D001	12/27/88	
	7/18/88	100ml	116	Pulyimido	D001	12/27/48	
#	7/21/88		25,M	Dimethyl codmium	0003	3/27/89	
+	7/21/18		100 m	Trinethyl aluminum	,		•
+	7/21/88		25cm	13, methy   zinc /	<u> </u>	4	
¥	7/57/54		Ism	Deca carbony I dirhence	x940		
-4	8/11/88		416	Coraphit / Ca/TC	Doole		

Date Stored	Cont Vol.	Lbs.	Item	Waste Type	Date Removed	Doc.
8/17/84		255m	Tr. fluoromethyl rodice	12002	3/21/19	
11/4/88	Igal	2165	As w/ red P	Pood		
11/17/88		100 ym	Tatra fluoroethylene	Dool	3/21/24	
12/5/88		116	G/As/P	D001	3/6/49	
12/7/28	19.7	2165	Monochyl cler	Dool	3/27/89	
1/3/89		1 gm	Elhanolomine		3/27/89	
1-9-89	702		XYLene		3/27/89	
1/17/89	1BA9	1/4/6	POSITIVE PHOTOREGIST		3/21/29	
•/	1-5 god	Del	DUPNET RECIST + ARDROX STAI	op{t	3/6/19	· · · · · · · · · · · · · · · · · · ·
3/9/84	IGALCAN		METHYLEN CHANGE		3/21/29	
3-16-89	2 GAL	16		Viscus	3/21/49	
3/16/59	Iat		curat \$0/147		3/21/49	
	i /	·	0220		3/21/49	
3/00/30	362. 28t Cxliner	200	PHOSPHORUS TRIBROMY PBR3	?		
, , ,	dxasgm	1 P	Trimothy   Indian Trinethy !	Phosph	<b>L</b> e	
3/24/89	116		C/As/P			
1 / s/cc/c	19+		Us. nish		3/27/19	
3-24-89	yeis	35	PHILD PESIST	419	3/27/19	
	107	402	POLYMINE	416	3/27/89	
3 <u>-28-</u> g		8LB	VIEDSETIC	110		
3-28-89	5GAL	10	1240 5 Pur OUS Trabraid	Soli		
3-24-89	24501		Br. + methanol			
3-28-89	Ů	2165	Polyimich			•
3-28-89	2x100m1		Photoresist in Chlorobearers			
3-28-89		116	filer ul oil			
3-28-89		2165	Filer W/ HF+P			
3-28-89	19+		Microresist			•

Date	Cont	ainer		Waste	Date	Doc.
Stored	Vol.	Lbs.	Item	Type	Removed	No.
3/28/49	1pt		O.1/water			
3/28/89	100 ml		O.l/water Photoresist			
					·	
						<del></del>
						<del> </del>
				+		
				+		
	1		<u> </u>			

REFERENCE NO. 27

### NEW ?— SEY DEPARTMENT OF ENVIRONMENTAL PROTFCTION DIVISION OF WASTE MANAGEMENT

#### NOTICE OF VIOLATION

IDNO. NTD. 11 - 48587 DATE 31-54
NAME OF FACILITY 17 F B-11 Labs
LOCATION OF FACILITY Grantond's Corner Rd Holmdal N. Ja 7735
NAME OF OPERATOR (a) & Wystkowsk I'L Migr Con Manut, Dopt
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.
DESCRIPTION OF VIOLATION  NJ H ( 7 16 - 4, 4 (g) & No remeasured chilly with  all employees and local authorities to test emergency  response co-feat-elities
For an example of 2m annual field.  Note of 1.4(9) 8) Tran the involvement of the fields.  Remedial action to correct these violations must be initiated immediately and be completed by
shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures
you have taken to attain compliance. The issuance of this document serves as notice to you that a
violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initi-
ating further administrative or legal action, or from assessing penalties, with respect to this or other
violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

Investigator, Division of Waste Management
Department of Environmental Protection

Paul /E. uyszka.

REFERENCE NO. 28

Cut housed on earth

CN 028 Trenton, N.J. 08625-0028 (609)633-1408

## State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

H.L. Graham, Jr.
Executive Director, R&D
Facilities Management Division
AT&T Bell Laboratories
101 John F. Kennedy Parkway
Short Hills. NJ 07078-0905

APR 1 1 1989

Dear Mr. Graham:

RE: Facility Layout and Design Certification Approval for AT&T Bell Laboratories (Holmdel Site), Holmdel, Monmouth County, EPA ID No. NJD 011 328 887, N.J. Facility No. 1318G1

The Bureau of Hazardous Waste Engineering (the Bureau) is in receipt of your company's letter of July 19, 1989 signed by you and Paul E. Wyskowski, P.E., License No. 12307. This letter states that the facility layout and design of the hazardous waste storage areas is in compliance with the engineering plans and reports of Condition I(a) of Section II as required by Condition 12(a)(1) of Section I of the hazardous waste facility permit issued by the Division on December 23, 1988.

The Bureau has reviewed your certification submittal regarding layout and design of the subject facility. Also, the Bureau inspected the facility on March 31, 1989, and finds it in compliance with the layout and design set forth in the engineering plans and reports and permit Condition 12(a)(1) of Section I.

Therefore, please be advised that said submittal is acceptable and the subject facility is in compliance with the reporting requirements of the Hazardous Waste Facility Permit, Condition 12(a)(1) of Section I.

Should you have any questions, please contact Bob Patel of my staff at (609) 292-9880.

Very truly yours,

Minnes Theman

Thomas Sherman; Acting Chief Bureau of Hazardous Waste Engineering

EP9/1m

cc: Barry Tornick, USEPA, Region II

Vince Krisak, BCE

DOCUMENT: ATTBELL2 FOLDER: LXMMCB

REFERENCE NO. 29

to graduate and a signature

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#### PRELIMINARY ASSESSMENT OFF SITE RECONNAISSANCE INFORMATION REPORTING FORM

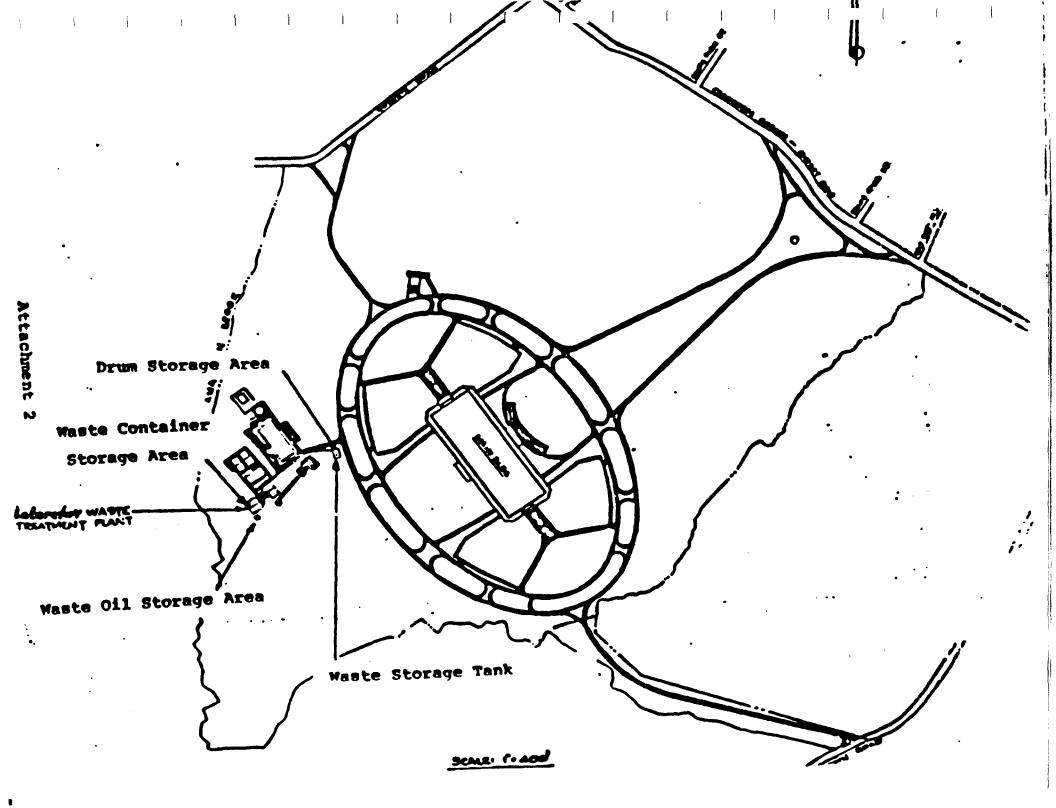
Date: 9/20/89
Site Name: ATET BELLLABS - FOLYDEADD: 02-8909-14-PA
Site Address:   TRINFORDS CRUER ROAD  Street, Box, etc.  TOUNDEL  Town  County  New ERSEV  State
NUS Personnel: Name Discipline  D. Cottes  J. Frost Biologist
Weather Conditions (clear, cloudy, rain, snow, etc.):  CLOUDY, COOL, CALM
Estimated wind direction and wind speed: O - CALM
Estimated temperature: 68°F
Signature: July Date: 9/06/89
Countersigned: 126/89 Date: 7/26/89

#### INFORMATION REPORTING FORM

Date:
Site Name: ATET BELL LABS-HOLMDELTDD: 02-8909-14-FA
Site Sketch: Nirsery
Indicate relative landmark locations (streets, buildings, streams, etc.). Provide locations from which photos are taken.
See ATTACHED/ Main Entrance P.
PAWFORDS CONNET/ELLERE
/ Midrietown Road
Service Hair Building
wom tackeround Service
right Service Service Entrance

Countersigned: All fa

Date: 9/26/8



#### INFORMATION REPORTING FORM

Date: 9/26/89
Site Name: ATT BELL LOBS-HOLMDEL TDD: 02-8909-14-PA-PIC
Notes (Periodically indicate time of entries in military time):  Arrived Asile at 0958. Na store. Facility
Site is alough Amile from road Drove
emisiol & Tould son to be Der No Frems
Laules or other units were observed.  At 1945 to 1015 drove to last und of swimming
The Company treatment plant was abstroed
took picture ofentranch sign Plants name is Svimming River Treatment Plant No Lead
site. The rea is surrounded by querally low-
subdivisions interspersed. These homes are
what with a sope of less those 26 showever,
Signature: Delw Two Date: 9/36/89  Countersignature: Delw Two Date: 7/26/89

#### INFORMATION REPORTING FORM

Date: 9/26/89
Site Name: ATET BELL LABS-HXMDELTDD: 02-8909-14 PA
Notes (Cont'd):
some small valleys dies to creek treds wer noted in the surrounding ores.
noted in the surrounding over.
Attach additional sheets if necessary. Provide site name, TDD number, signature and countersignature on each.
Signature: Date: 9/36/89
Countersignature: AllSW Date: 9/16/89

#### INFORMATION REPORTING FORM

Date: 9/26/	89		_	
Site Name: 🔏	TAT BELL	LABS-F	-COLMDECTOD: C	22-8909-14-PA
Photolog:				
Frame/Photo Number	Date	<u>Time</u>	Photographer	Description
P4	9/26/89	9158	J.FROUT	LOOKING SSE TOWARD WEST-
P5	<u> 1</u> 20189	10:10	J. FROST	LOOKING SSE TOWARD WEST - EFACILITY. LOOKING W. AT EAST
PG				ENTRANCE OF FACILITY LOOKING SUI ATMAIN
P7	9/24/89	10:35	J.FROST	ENTRANCE OF FACILITY ENTRANCE OF SWIMMING
			_ <del>_</del>	RIVER TREATMENT PLANT
	/	/		
	<del></del> _			
	-			
Attach addition	nal sheets if	necessary. P	rovide site name,	, TDD number, signature,
and countersig	nature on eac	ch.		
Signature:	Laurs (	frost	Date:	9/26/89
Countersignati	ure: 1.W	Yu	Date:	9/26/29

REFERENCE 30

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Quanco K Chustin

STATE OF NEW JERSEY
DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT

DIVISION OF WATER POLICY
AND SUPPLY



#### WATER RESOURCES CIRCULAR 2

RECORDS OF WELLS AND GROUND-WATER QUALITY
IN MONMOUTH COUNTY, NEW JERSEY

Prepared in cooperation with
United States Department of the Interior
Geological Survey

Table 1. -- Age, thickness, and water-bearing properties of rack units in Monmouth County based chiefly on data from domestic wells

System	Series	Stratigraphic unit	Penetrated thickness (lees)	Water-bearing properties in Monmouth County
<b>X</b>	Recent	Alluvium, predominantly clay and sand.	3 <b>-10</b>	Relatively nonwater bearing. No drilled wells reported in this material; many dug wells yield small supplies for domestic use.
Qualemary	Pleistacene	Sand and gravel	0-60	Yields up to 6 gpm (gallons per minute) per well; many wells yield water containing iron. Larger yields probable, but none reported.
	ć	Cohansey sand	0-30	Not tapped by drilled wells, because of insufficient thick- ness; however, many aug wells tap this formation_
	Miucene	Kirkwood tormation (sanu ana clay)	0-74	Yields range from 15 to 75 gpm; many well waters contain iron and hydrogen sulfide and have a low pH.
Tertiory	Eocene	Manasquan unu Shark River marts	0-100	Relatively nanwater bearing, but yields up to 12 gpm have been reported.
	Cene	Vincentum sand	0-155	Numerous domestic wells tap this sand. Reported yields range from 10 to 35 gpm; higher yields may be possible.
	Paleocene	Harnerstown marl	0-100	Relatively nonwater bearing. Yields of 5 gpm have been reported from a few wells.
	Upper Cretaceous	Red Bank sand (includes the Tinton sand member)	0-135	Yields range from 3 to 30 gpm; water contains iron.
		Navesink mart	0-45	Relatively nonwater bearing; a few wells have yielded as much as 10 gpm.
		Wenanah and Maunt Laurel sands	O-85	Yields to 430 gpm have been reported; yields on the order of 300 gpm probably can be obtained locally from properly developed large-diameter wells.
Cretoceous		Marshalltown formation (clay and some sand)	0-50	Nat considered water bearing.
5		Englishtown sand	0-130	Average yield 15 gpm, and yields of 200 gpm might be expected from large-diameter wells.
		Waadbury clay	0-60	Nat considered water bearing ,
		Merchantville clay	0-60	do.
		Reriton and Magothy forma- tions (elternating sand and clay layers)	175-580+	Yields of 600 gpm have been reported from these formations.  The majority of wells are in the Saritan formation. The water from these formations is usually high in iron.
		Pre-Creteceous rooks	,	Nor respect by wells.

Table 2 .- - Records of selected wells in Monmouth County, N. J .- - Continued

			<del></del>	<del></del>														
						Jene 1			(foot)	_	Principal	water - bearing bed	Tar of	dante)				
	ío.	Location	Ormer of name	Driller \	Iear completed	Altitude above see 1	Total depth (feet)	Diameter (inches)	Length of casing (fe	Sarem setting (feet)	Osologia age	Aquifer	Statio water level by Land surface (feet)	lone per	Persolone (2 net)	Use of water	Renartes	Bo.
	46	1.0 mi. SE. of Union Beach	Van Ameringen Hambler, Inc.	Wa. Stothoff Co.	1951	10	328	6	298	298-328	Cretacecca	Rariton and Magothy formations	20	275	کیا	I	25-and 30-slot sursens	46
+	47	1.3 mi. SW. of Keamsburg	Win. Brooks	S. Van Schoick	1952	20	106	4	101	101-106	do.	do.	18	4	22	۵	Water contains iron.	47
+	w	.8 ml. E. of Matawan	John D. Codomo	Greenhalgh & Kaye	1953	75	258	4	253	253-258	do.	do.	35	<b>)</b> 0	10	а	See analysis, table k.	148
.}.	49	1.2 ml. SE. of Keyport	Walter Ivens	S. Van Scholek	1952	ĻО.	115	4	107	107-115	do.	do.	40	5	20	٥	Deed only for lasen irrigation.	49
1	50	1.4 ml. SE. of Keyport	L. Bahrenburg	Tice Brothers	1952	100	n	lı,	27	27-31	do.	Englishtown sand	13		6	D	Not used for drinking.	50
	51	1.7 ml. 5. of Heansburg	Eduard Looks	S. Van Schoick	1952	25	20	<b>i</b> .	16	16-20	do.	do.	70	5	6	٥	Water contains iron.	51
I	5 <u>2</u> )	2.0 ml. ME. of Holadel	Stanley Stillwell	Greenhalgh & Kaye	1956	110	72	lı.	681	68-72	do.	Wemonah and Mount Laurel		*12	20	D	16-elet screen.	52
*	55	1.5 ml. N. of Holmdel	Mrs. Duncan	do.	1951	1145	176	6	172	172-176	do.	Englishtown sand	75	20	23	D	See malyeis, table 4.	53
Ž	54	1.9 ml. ME. of Holmdel	F & F Nurseries	Wm. Stotholf Co.	195L	11,0	200	6	190	190-200	40.	do.	60	60	90	1	do.	54
	55	3.3 ml. ME. of Holumdel	Mr. A. C. Carlson	Oreenhalgh & Kaye	1954	51'0	85	6	75	75-85	do.	Wenonsh and Hount Laurel	<b>61</b> 1	8.3	19	D	25-alot soreen.	55
1	56	2.3 ml. NE. of do.	John Waddington	do.	1955	190	. 49	4	149	45-49	do.	do.	16	- 10	14	۵	18-slot screen.	56
	57	2.5 ml. NE. of do.	Hr. A. Flomer	do.	1956	240	121	4	115	115-121	do.	do.	98)	10	12	D	See analysis, table k.	57
	58	.5 ml. SW. of Atlantic	J. P. Julian	Tice Brothers	1951	20	36	6	26	26-36	do.	Englishtown sand	o	20	26	D	Flowing well	58
1	59	Highlands 1.0 ml. SW. of do.	Charles B. Horster	Walter N. Cobb	1951	130	152	4	86	None	do.	do.	85	7.5	15	D	Water contains iron.	59
1	60	4.0 mi. NV. of Red Bank	Mr. L. Orandinetti	Greenhalgh & Kaye	1955	70	74	6	64	64-74	<b>4</b> 0.	do.	35	30	28	D	See analysis, table 4.	60
	61	2.3 mi. MV. of Rumson	Joseph Stavela	R. Kaye	1951	165	248	6	248	2110-2115	do.	do.	178	12	u	۵	Water contains iron.	61
	62	1.0 ml. SW. of Robertsville	Mrs. A. Onoreto	Greenhalgh & Kaye	1953	120	81	l.	78	78-81	do.	do.	35	9	38	Q	do.	62
	63	.9 ml. L. of do.	John Lemli	dio.	1954	180	700	Į.	96	96-1-30	do.	do.	70	10	20	а	do.	6)
-	64	.7 ml. W. of Hillsdale	Harlboro State Hosp	A. C. Schultes 4	1950	180	593	15	507	507-593	do.	Raritan and Magothy formations	138	636	35	P	do.	64
	65	1.5 ml. NV. of Marlboro	H & L Farms	W. Stothoff Co.	1951	150	206	6	197	197-206	do.	Englishtown sand	<b>6</b> 2	55	85	1	do.	65
-	66	.7 mi. No. of Morganville	Joseph Stalgaitis	Andy White	1950	150	260	Ł.	189	189-196	do.	Raritan and Magothy formations	120	12		۵	See analysis, table 4.	66
	67	.5 mi. N. of Harlboro	R. E. Morgan	R. Kaye	1947	170	175	6	160	160-170	do.	Englishtown sand	50	20	20	D	do.	67
L			l		i							ll	لــــا	لمنا		لسا		

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					level			(feet)	eet)	Principal	water - bearing bed	bei ow t)	minute)			,	
No	. Location	Owner or name	Driller	completed	tude above ser (feet)	depth (feet)	rter (inches)	of cesting	m setting (fe	Geologic age	Aquifer	isurface (feet)	(gallons per	lown (feet)	of water		ho.
L				Iear	Altitude	Total	70	Length	Sar			Static land i	Yseld	Drawdown	ŝ		
68	Harlboro	Henry Higgins	Greenhalgh & Kaye	1954	170	176	4	171	171-176	Cretaceous	Englishtown sand	73	12	27	D	Water contains iron.	66
69	Tennent	George Thompson	do.	1954	100	86	4	83	83-86	do.	do.	12	10	8	D	do.	69
70	.3 mi. S. of Tennent	Tennent Orchards,	do.	195և	130	167	6	157	157-167	do.	do.	35	13	70	D	See analysis, table 4.	70
71	1.5 mi. N. of Freehold	Inc. Arthur Weighell	John Keidel	1954	70	60	l.	60	None	do.	Red Bank sand	35	10	7	D	Consumption, 300 gal-	$\mid n \mid$
72	do.	Stanley Rodi	Greenhalgh & Kaye	1956	170	52	l.	52	None	do.	do.	30	10	5	D	lons per day.	72
73	1.5 mi. NE. of Freehold	Frank Oumina	Tice Brothers	1953	190	<b>32</b> 4	6	30lı	30k-32k	do.	Englishtown sand	75	200	30	D	Supplies 5 families.	73
11	) l.b mi. SE. of Hillsdale	Hr. H. P. Neved	Greenhalgh & Kaye	1953	115	164	4	101	101-104	do.	Wemomah and Mount Leurel	<b>50</b>	, 2	76	D		74
15	1.9 ml. H. of Holmdel	Leorge Habeny	do.	1954	250	228	6	223	223-228	do.	sends Englishtown send	180	10	30	D	See analysis, table 4.	75
76	1.9 ml. W. of do.	Anthony Verange	Tice Brothers	1954	250	225	4	215	215-225	do.	do.	174	30	la.	a	do.	76
711	1.4 ml. E. of do.	Laura Harding	Wm. Stotboff	1949	120	210	6	200	200-210	do.	do.	50	35	8	D	do'.	11
78	1.6 mi. E. of Holmdel	Nick Petrusella	Andy White	1949	120	143	6	138	138-143	do.	do.	43	25	62	D	do.	78
13	1.0 mi. E. of Marlboro	George Wendel -	do.	1949	120	80	4	80	None	do.	Wenonah and Hount Laurel	22	12	30	1	Water comtains from	79
80	2.5 mi. E. of Marlboro	Walter Voorhees	John Allen	1952	130	133	i,	129	129-133	do.	Navesink marl	38	12	8	D	do.	80
81	2.4 mi. W. of Colts Neck	Leonard Pincus	John Allam	1954	160	99	l <sub>k</sub>	95	95 <b>-99</b>	do.	Red Benk send	44	10	6	D	do.	81
82	2.0 ml. SW. of do.	Mr. Scatuorchie	Andy White	1950	110	250	6	238	249-250	do.	Englishtown sand	60	30	60	D	See emalysis, table 4.	82
83	Colte Neck	Atlantic Township	Greenhalgh & Kaye	1954	86	280	6	270	270-280	do.	do.	30	25	30	P	do.	83
a	2.8 mi. E. of Holmdel	-School Fred Gaskill	S. Van Schoick	1956	65	کیا	-	. 142	13-16	do.	Venonsh and Hount Laurel	~~ĩõ".	W/.E.T	" <b>20</b> "	Ď	20-alot soreen.	6L
85	1.6 mi. W. of Red Bank	Fred Snyder	Greenhalgh & Kaye	1953	100	92	la l	7	None	do.	Navosink merl	30	10	12	D	25-alot screen.	85
86	.7 ml. S. of Red Bank	5. Van Schoick	3. Van Scholok	1954	30	30	la la	23	23-27	do.	Red Bank sand	6	20	6	D	Consumption, 300 gal-	86
87	2.0 ml. W. of Estontown	James Durand	Walter N. Cobb	1951	70	68	l,	49	Mone	do.	do.	20	10	5	D	lons per day. Water contains iron.	87
68	2.0 ml. S. of Estontown	Louis Venezia	Tice Brothers	1954	50	160	h.	156	156-160	Tertiary	Vincentown send	4	20	26	α	Temp.,5և <sup>4</sup> 7.,ph, 8.0.	88
89	2.0 mi. HE. of Estantown	Louis Grandetti	Oreenhalgh & Kaye	1953	2	133		7	Name	Cretaceous	Red Bank sand	2	12	દ્ય	D	Water contains ires.	89
90	1.2 mi. SW. of Monmouth Beacl	Robert Hollywood	3. Van Scholck	1951	20	50	3	30	Mone-	Tertiary	Hornerstown marl		5	24	Q	Tested for 3 hours.	90
	<u> </u>						i				· · · · · · · · · · · · · · · · · · ·				Щ.	L	

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#### Well 51, Phillips Mills; Edward Leske (Log by S. Van Schoick) Altitude, 25 feet

•	Thickness (feet)	Depth (feet)
Cretaceous:		
Englishtown sand:		
Sand, yellow	10	10
Sand, brown	6	16
Sand, white	4	20
Well 52, Holmdel; Stanley Stillwel (Log by Greenhalgh and Kaye) Altitude, 140 feet	1	
Quaternary:		
Pleistocene and Recent:		
Clay, yellow	18	18
Cretaceous:		
Navesink marl:		
Sand, clayey, black and gray	22	40
Sand, green, with shell fragments	10	50
Wenonah and Mount Laurel sands:		
Sand, fine	10	60
Sand, coarse	12	<b>72</b>
Well 53, Holmdel; W. J. Duncan (Log by Greenhalgh and Kaye) Altitude, 195 feet		
Quaternary:		
Pleistocene:		
Sand, yellow, and clay	25	25
Cretaceous:		
Navesink marl:		
Marl, green, with shell fragments	20	45
Wenonah and Mount Laurel sands:		
Sand, and clay, black	40	85
Sand, fine, and clay	10	95
Sand, fine	10	105
Marshalltown formation:		
Clay, tough, black	30	135
Englishtown sand:		
Sand, fine, with lignite and stone	12	147
Clay, tough, black	13	160
Sand and clay	6	166
Sand, clean, with lignite and rock	10	176

Table 3.--Logs of wells in Monmouth County, N. J.--Continued

#### Well 75, Holmdel; George Hubeny (Log by Greenhalgh and Kaye) Altitude, 250 feet

Annoue, 250 feet	Thickness	Depth
Contraración	(feet)	(feet)
Cretaceous:  Red Bank sand:		
	58	58
Sand, with yellow clay and "stone"	12	<i>7</i> 0
Sand, gray and black	25	95
Navesink marl:	22	73
Marl, gray and black, with shell fragments	40	135
Wenonah and Mount Laurel sands:	40	100
Sand, fine, with black clay	30	165
Sand, fine	25	190
Marshalltown formation:		.,,
Clay, green and black	20	210
Englishtown sand:		
Sand, coarse, with lignite, black clay, and "stone".	18	228
Well 77, Holmdel; Laura Harding (Log by Greenhalgh and Kaye) Altitude, 120 feet		
Cretaceous:		
Red Bank sand:		
Sand, and yellow clay	10	10
Navesink marl:		
Sand, fine, clayey, glauconitic	10	20
Clay, silty, gray, glauconitic, with shell fragments.	10	30
Wenonah and Mount Laurel sands:		
Sand, gray, slightly clayey, glauconitic	80	110
Marshalltown formation:		
Sand, very fine, clayey	20	130
Clay, gray, with some sand	10	140
Englishtown sand:	5.0	100
Sand, gray, fine, with mica and clay lumps	50 20	190
Clay, gray, with sand	20	210

Table 3.--Logs of wells in Monmouth County, N. J.--Continued

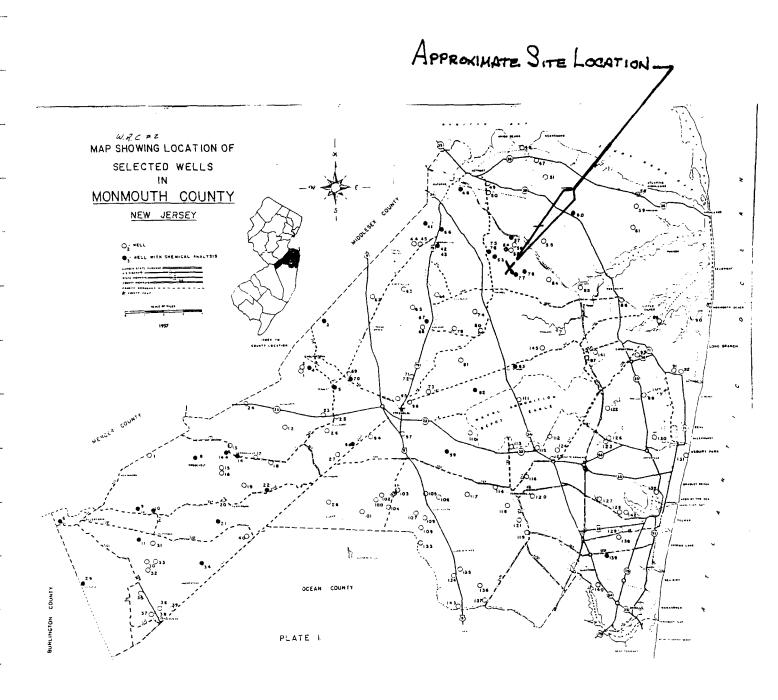
# Well 78, Everett; Nick Petruzella (Log by Andrew White) Altitude, 130 feet

, , , , , , , ,	Thickness (feet)	Depth (feet)
Cretaceous:		
Red Bank sand:		
Sand, black	35	35
Navesink marl:		
Clay, gray	20	55
Clay, black	8	63
Wenonah and Mount Laurel sands:		
Sand, glauconitic, with clay	45	108
Marshalltown formation:		
Clay, black	29	137
Englishtown sand:		
Sand, gray, with lignite	6	143
Well 81, Montrose; Leonard Pincus (Log by John Allan) Altitude, 160 feet		
Red topsoil	4	4
Quaternary:		
Pleistocene:		
Gravel, red clay	12	16
Cretaceous:		
Red Bank sand:		
Sand, medium fine, mixed with clay	39	<b>55</b>
Clay, red	34	89
Sand, coarse, red	10	99

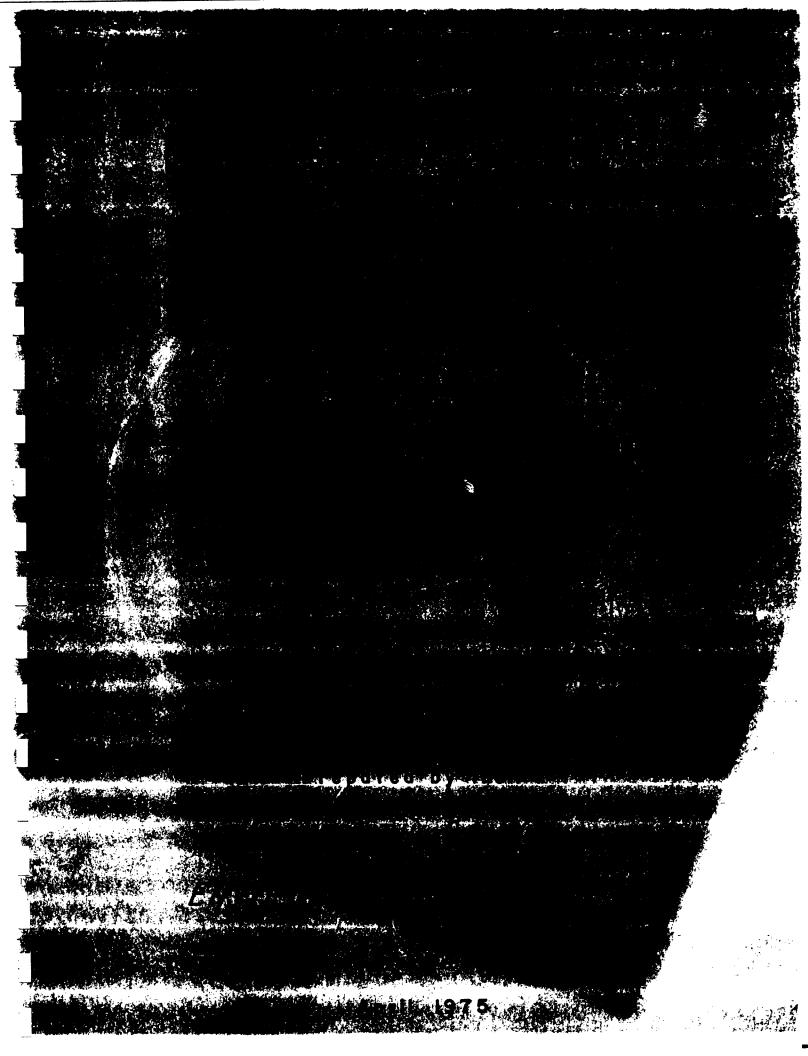
Table 3.--Logs of wells in Monmouth County, N. J.--Continued

#### Well 82, Freehold; Nicholas Scatourchio (Log by Andrew White) Altitude, 140 feet

	Thickness (feet)	Depth (feet)
Quaternary(?):		
Clay, sandy, red	6	6
Tertiary:		
Kirkwood(?) formation:		
Sand, fine, yellow	24	30
Sand, indurated, glauconitic	35	65
Cretaceous:		•
Tinton sand member of Red Bank sand:		
Sand, indurated, glauconitic	20	85
Red Bank sand:	20	•
Clay, sandy, black	20	105
Clay, black, with shell fragments	15	120
Navesink marl:		
Clay, sandy, black, with shell	20	140
Sand, black	5	145
Clay, black	15	160
Wenonah and Mount Laurel sands:		
Sand, fine	38	198
Marshalltown formation:		
Clay, black, and silt	37	235
Englishtown sand:	, •.	
Sand, gray, with lignite	15	250
34.13, g. 4, ,	.•	
Well 84, Everett; Fred Gaskill (Log by Sidney Van Schoick)		
Altitude, 65 feet		
Cretaceous:		
Red Bank sand:		
Sand, red and yellow	18	18
Navesink marl:		
Sand, black	10	28
Sand, glauconitic	10	38
Wenonah and Mount Laurel sands:		
Sand, white	7	45



REFERENCE 31



#### GENERAL GEOLOGY

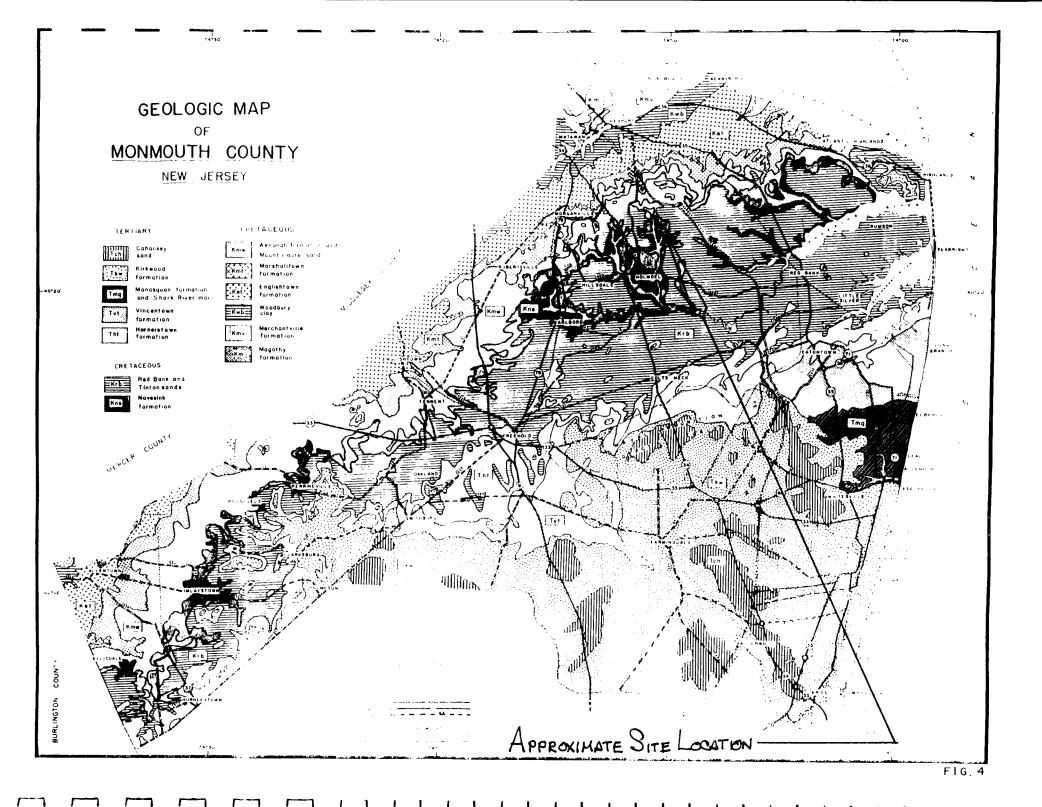
The Atlantic Coastal Plain physiographic province, of which Mon-mouth County is a part, is underlain by unconsolidated sediments of Mesozoic and Cenozoic age. For long periods of geologic time this coastal plain existed as a shallow shelf and received sediments from the eroding Appalachian Mountains. These eroding particles of silt, sand and clay were washed onto this shelf area, which then periodically subsided under the weight of the sediments. Consequently the shelf area closest to the then shoreline filled in and new sediment was carried down to the next subaqueous zone. In this manner a thick wedge of sediments was formed which now constitutes the coastal plain and continental shelf. The thickness of the coastal plain sequence in the County ranges from 500 feet in the northwestern part of the county to more than 1200 feet in the southeastern part. Offshore (on the outer continental shelf) these sediments increase in thickness to more than ten thousand feet.

The coastal plain sediments in Monmouth County are of marine and continental origin and are composed mainly of sands, silts and clavs and greensands or glauconitic sands with interspaced gravel beds. Strata of iron-cemented sandstone are locally present. A thin veneer of sand, clay and gravel deposits of more recent age overlie the older coastal plain sediments. This layer is of Quaternary age (less than one million years old) and was deposited by outwash or meltwater from the glacial ice that covered all land as far south as northern New Jersev.

The eroded surfaces of the Mesozoic and Cenozoic coastal plain sequence are exposed at the surface in bands trending northeast-southwest. These bands can be seen on the geologic map of Monmouth County and represent cross-sections of strata dipping to the southeast at 25-nO feet per mile. See Figure 4.

Monmouth County has had a long and varied geological history. The oldest known rocks underlying the county were deposited in a shallow sea. These sediments, consolidated under great pressures and temperatures became sandstones and shales. Later these rocks were intruded by igneous rocks and altered to complex folded gneisses (pronounced nice's) and schists. These rocks are known as the Wissahickon Formation and are generally considered to be late Precambrian (about 600 million years) in age. '

An extended period of nondeposition and erosion of the Wissahickon Formation then followed. Nondeposition and erosion occurs when a landform lies above sea level. Streams journey across a positive landform carrying away silt and sand to a negative (below sea level) landform. Approximately 120 million years ago during the Cretaceous epoch the Appalachian Mountains to the west were uplifted and streams flowing eastward deposited sediments along the coast. Another period of nondeposition and erosion occurred and some of the early Cretaceous sediments were removed. This cycle was repeated once again during the late Cretaceous period and was culminated with a complete withdrawal of the sea.



Some of million years ago the fertiary Period began with a complete advance of the sea over Monmouth County. During the next of million years there were numerous transgressive and regressive (advances and retreats of the sea) cycles which alternatingly eroded, deposited and generally built up a sequence of sands, clays and gravels on top of the older Cretaceous rocks.

During the past one million years sediments that make up the Quaternary System were deposited. These sediments, which were carried down by melted waters from the glaciers to the north, belong to the Pleistocene Epoch or the "Ice Age". The Quaternary deposits since that time belong to the Recent Series. Recent deposits include stream and river alluvium and beach deposits such as those that make up Sea Bright and Sandy Hook.

#### STRATIGRAPHY

The Cretaceous and Tertiary sediments which make up the coastal plain sequence vary in thickness and many of the formations increase in thickness downdip. These sediments were deposited in cyclical transgressive and regressive patterns. In the Cretaceous Period, the Merchantville, Marshalltown, Mt. Laurel-Navesink and Tinton Formations are characterized by an abundance of glauconite and the presence of offshore type fossils. Formations containing glauconite (greensand) are usually considered to be offshore or deepwater deposits. The Magothy, Woodbury, Wenonah and Red Bank Formations are mainly nonglauconitic in composition and contain near shore or shallow water fossils. In the Tertiary sediments, the Hornerstown and Manasquan Formations are highly glauconitic and of deep-water origin. The Vincentown and Shark River sands and clays represent alternating retreats of the sea.

A more detailed description of the Geologic Formations of Monmouth County follows. Only formations that outcrop on the surface or have been identified in the subsurface are discussed and not the entire Coastal Plain sequence of the eastern seaboard. The description will start with the oldest formation in the county and end with the poungest undifferentiated sediments. A table showing the stratigraphic column in Monmouth County is shown in Figure 5. The duration of each geologic epoch is also shown in Figure 5. Sources for this discussion are: Dorf and Fox (1957); Jablonski (1967); and Richards (1967).

#### RARITAN FORMATION

The Raritan is the lowermost Coastal Plain formation in Monmouth County. It consists of alternating layers up to 300 feet thick at the outcrop in the Raritan Valley but thins and becomes less distinguishable Southwestward. In Monmouth County the Raritan ranges from 150 to more than 400 feet in thickness. It consists mainly of sands, clays and fireclays with local lignitic and carbonaceous material which darken the sediments. The Raritan is predominantly non-marine or brackish water in origin in the County but downdip marine fossils have been recovered from wells at depths of 1400 to 1550 feet.

# GENERAL GEOLOGIC COLUMN

## MONMOUTH COUNTY

(NOT TO SCALE)

	NARY Y.	CENE A.Y.	RECENT DEPOSIT	
	QUATERNAF 2.5 M.Y.	PLEISTOCENE 2.5 M.Y.	CAPE MAY, BRIDGETON AND PENSAUKEN FORMATIONS	
C)		PEIOCENE 4.5 M.Y.	COHANSEY SAND	
CENOZOIC 65 M.Y.	۲,	MIOCENE 1914.Y.	KIRKWOOD FORMATION	
CE	TERTIARY 62.5 M.Y.	E O L E PLE I G M.Y.	MANASQUAN FORMATION SHARK RIVER MARL	
		OCENE M.Y.	VINCENTOWN FORMATION	
		PALEOCENE II M.Y.	HORNERSTOWN FORMATION	
			RED BANK AND TINTON SANDS	
			NAVESINK FORMATION	
		Ø	MT. LAUREL SAND WENONAH FORMATION	
Z O Z O I C	TACEOUS	CRETACEOUS	MARSHALLTOWN FORMATION	
MEZC 160	CRETA	UPPER C	ENGLISHTOWN FORMATION	
			WOODBURY CLAY MECHANTVILLE FORMATION	
			MAGOTHY FORMATION	
			RARITAN FORMATION	
PALEOZOIC 345 M.Y.	CAMBRIAN TO M.Y.		WISSAHICKON FORMATION	

PREPARED BY THE MONMOUTH COUNTY PLANNING BOARD 6/74

Not exposed at surtace in Aonmouth County

FIG. 5

#### MAGOTHY FORMATION

The Magothy Formation also consists of alternating beds of dark and light colored sand with considerable lightle. Near Cliffwood Beach the Formation contains marine fossils, but in other places it is nonmarine. Pyrite and marcasite concretions are common. The formation ranges in thickness from 25 to 175 feet.

#### MERCHANTVILLE CLAY

This clay is dark green or black in color and contains considerable glauconite. The Formation is over 50 feet thick in the County and is of marine origin.

#### WOODBURY CLAY

This formation consists of dark gray or black non-glauconitic and locally lignitic clay. There are also some interbedded lenses of white sand. The Woodbury is non-marine in origin and reaches 50-60 feet in thickness in Monmouth County.

#### ENGLISHTOWN FORMATION

The Englishtown Formation consists of white, yellow or gray micaceous quartz sand with some glauconite. It contains local cemented iron-oxide, lignite, pyrite and clay lenses. It ranges in thickness from 150 feet near Atlantic Highlands to less than 20 feet in Salem County. Fossils are scarce but the formation is thought to represent beach or shallow water nearshore deposits. Dorf and Fox (1957) suggest that the Englishtown may be non-marine in origin.

#### MARSHALLTOWN FORMATION

This formation varies from black sandy clay to a clayey green sand with much glauconite and chlorite. Small amounts of lightle is present. The formation is shallow water marine in origin and ranges from 30-50 feet in thickness.

## WENONAH AND MOUNT LAUREL SANDS

The Mount Laurel Sand is a slightly glauconitic sand that grades downward into the Wenonah which is finer in texture and contains less glauconite. The two sands range in thickness from 15-85 feet. The Wenonah is marine in origin and contains local beds of sandy clay. The Mount Laurel is also of marine origin.

#### NAVESINK FORMATION

This Formation consists of semi-consolidated green sandy marl containing fine to coarse glauconite and quartz grains. The upper member is clayey and contains pyrite while the lower portion is coarser in texture and contains polished quartz pebbles and more glauconite than the upper part of the formation. The Navesink is marine in origin and ranges from 25-40 feet in the County.

#### RED BANK FORMATION

The Red Bank consists of a red to yellow-brown sand at the top underlain by a gray-brown sandy clay and clayey sand at the bottom. The basal 20 feet of sandy clay grades below into the Navesink. The Red Bank reaches a thickness of 140 feet in Monmouth County but thins southward and is not recognized in New Jersey south of Fort Dix. Only the lower clay member is fossiliferous and is of marine origin.

#### TINTON SANDSTONE

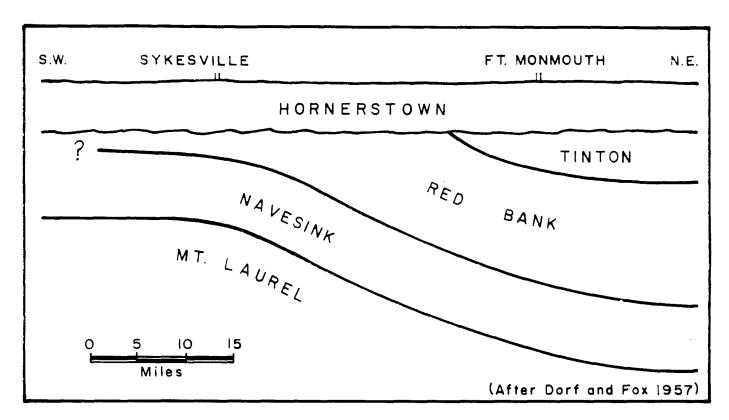
The Tinton is the youngest Cretaceous Formation in New Jersey. It is found only in Monmouth County where it attains a maximum thickness of 25 feet. It consists of a massive bed of indurated green sandy glauconite and contains poorly preserved marine fossils. At Beers Hill on the Hazlet-Holmdel Road there is an outcrop of the Tinton with abundant fossils; many of which have been replaced by vivianite, which is bright blue in color.

#### HORNERSTOWN FORMATION

The Hornerstown is a highly glauconitic sand with some clav present with a maximum thickness of about 30 feet in Monmouth County. From north to south it overlies first the Tinton, then the Red Bank and Navesink. This relationship in Monmouth County is shown on the next page. The formation is marine in origin and is locally highly fossiliferous.

#### VINCENTOWN FORMATION

This formation consists of two facies; a calcareous sand facies composed of animal remains such as bryozoans, corals and echinoids; and a quartz sand facies that is less fossiliferous and best developed in Monmouth County. The formation is marine in origin and ranges in thickness from 20 to 100 feet. The Vincentown is considered to be Paleocene (50-60 million years old) in age.



RELATIONSHIP BETWEEN HORNERSTOWN FORMATION AND UNDERLYING CRETACEOUS FORMATIONS.

FIG. 6

#### MANASQUAN FORMATION

The Manasquan Formation consists of a greensand at the base which is about 15 feet thick overlain by about 10 feet of find sand and greenish gray clay. The formation is marine in origin.

#### SHARK RIVER MARL

This marl is a mixture of 11 feet of glauconite and light colored sandy clay exposed along the banks of Shark River. It is fossiliferous and marine in origin. Richards (1967) states; pg. 2407, that it is impossible to separate the Shark River from the Manasquan Formation on the basis of lithology.

#### KIRKWOOD FORMATION

The Kirkwood consists chiefly of fine-grained micaceous sand with some clay present in occasional layers. The formation is composed of two members which are distinguished by their lithologic characteristics. The lower member is brown in color and is composed of sand with pebbles and some fine-grained glauconite. The upper member contains yellow sand with some lignite (Jablonski, 1967). The formation is 60-100 feet thick in Monmouth County, thickens considerably downdip. In Atlantic and Cape May Counties it reaches 600 feet in thickness. The formation is marine in origin and is Miocene (20 million years old) in age.

#### COHANSEY FORMATION

This formation, called the "water table acquifer" by Jablonski, (1967), is mainly a quartz sand that contains white, gray and red kaolinitic clays interbedded with the sands. The sand is also cross-stratified, contains pebbles and in places is cemented with iron oxide. The formation is upper Miocene in age and is as much as 30 feet thick in Monmouth County.

#### BEACON HILL GRAVEL

The Beacon Hill Gravel consists of 0 to 20 feet of quartz, chert, and quartzite pebbles which are products of stream deposition. This gravel is found mainly on the tops of the higher hills in Monmouth County. Dorf and Fox (1958) placed the Beacon Hill stratigraphically as the voungest Tertiary formation in New Jersey. Richards (1967) also places the Beacon Hill as upper Tertiary or Pliocene, but concedes that the formation may in reality be early Pleistocene.

#### BRIDGETON FORMATION

The Bridgeton is composed of sands reworked from the Kirkwood and Cohansey Formations and forms thin mantles on scattered hilltops in Monmouth County. The Bridgeton is early Pleistocene (one million years old) in age.

#### PENSAUKEN FORMATION

The Pensauken is similar to the Bridgeton but contains abundant tronstone fragments and some glauconite (Jablonski, 1967). It is Pleistocene in age.

#### CAPE MAY FORMATION

The Cape May is also composed of sediments derived from the reworking of older formations. The Cape May consists of two phases: (1) A marine phase found along the coast and (2) a fluvial phase with deposits occurring in stream valleys. The Cape May is Pleistocene in age and probably the youngest of the three Pleistocene Formations.

#### SOILS

The soils of Monmouth County are many and varied, ranging from fertile deep soils to droughty infertile soils with little humus or organic material present. In Monmouth County the Soil Conservation Service (SCS) recognizes 43 series of soil represented by 114 types or subtypes. Table 3 lists these soil series by SCS designation and series name. Also given is data on parent material (from which soil type is derived), natural drainage, soil depth and the color of the surface soil. More detailed information on soils and soil characteristics may be obtained at the Soil Conservation Service in Freehold. This information includes percentages of soils, drainage classes, erosion factors and many other soil characteristics.

For purposes of cultivation the SCS has divided all land into eight classes according to capability for production and treatments necessary for continued production. Class I soil is the most fertile and Class VIII is the least fertile soil. Classes I, II, III are those suitable for cultivation and Class IV is marginal but adaptable for certain crops. The remaining classes are suitable for pasture or woodland. Class VIII is only suitable for wildlife uses. Soil classes are shown in Caple 5. Soil Classes I-III are shown on Figure 7.

#### SLOPE

A factor often related to soil compatibility is slope. If land is extremely tlat water will tend to collect after a rain and not runoff. On the other hand steep slopes will raise the erosion potential of the land and limit its use. The SCS has divided slopes in Monmouth County into six classes. These slope classes are shown in Table 4. In Monmouth County 90 per cent of the land has less than a 10 per cent slope and 75 per cent has less than a 5 per cent slope. In general poorly drained soils have less than a 2 per cent slope and the Colts Neck, Evesboro and Navesink soils tend to be in steeper areas. Steep slopes are snown on Figure 8.

# SEE SOIL : ERILS IN MONHOUTH COULTY

SYMBOL.	SERIIS HAM.	PAREAT HATTETAL	NATURAL DRAINAGE	D1 P4 II	COLOR SURFACE SOIL
<b>8</b> 01	Marlton	Sand, glauconite	Cood	Реер	Brown
802	Kresson	Sand, glauconite	Imperiect	Deep	Gray-brown
811	Monmouth	Sand, glauconite	Good	Deep	Yellow-brown
812	Danlonton	11	Impertect	n ·	Gray-brown
813	Colemantown	55	Poor	11	Gray
814	Matlock	n ti	Very poor	11	Black
821	Collington	11 11	Good	11	Brown
822	Adelphia	1)	Imperioct	11	Gray-brown
823	(Shrewsbury)	ti ti	Poor	11	Gray
824	Keansburg	11	Very poor	H	Black
841	Lincrott	11	Excessive	t)	Brown
861	(Freehold)	11 11	Good	Tr .	Yellow-Brown
862	(Holmdel)	tt tt	Imperiect	11	Gray-brown
871	Freehold (thick	soil			*
	phase)	II II	Good	н	\clip\chi+brown
890	Colts Neck	11	Good	11	Red-brown
8 C 1	(Freehold)	11 11	Good	11	Yellov-brown
8d2	(Holmdel)	n u	Impertect	11	Gray-brown
8.J.I	(Howell)	Silt on sand	Imperfect	Shallow	Gray-brown
930	(Lvesboro)	Brown sand	Excessive	Decp	Brown
931	Lvesboro	11	н	11	11
932	(Klej)	11	Imperfect	11	Gray-brown
933	Plummer	tt it	Poor	11	Grav
934 934	Rutledge	tt tt	Very Poor	11	Black
941	(Sassatras)	Sand-pravel	Good	H	Yellow-brown
942	Woodstown	of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	Impertuet	11	Yellow-Broun
943	(Fallsington)	11	Poor	II.	Grav
944	Pocomoke	11	Very poor	ti .	Black
944	(Lakewood)	Gray sand	- Lxccssive	11	Light grav
970 972	(Lakeburst)	n n	Importact	11	11 1 2 11 L 2 2 L 13 2
972 973	(Lakenurst) Leon	11 11	Poor	11	11 11
974	(St. Johns)	11	Very poor	11	Black
974 982		Sand on clay		11	Grav brown
	(Keyport)	sand on cray	Imperteet Poor	11	Grav
983	(Elkton)	11		11	Black
984	Alloway	ge te	Very poor Good	**	** * * * * *
9 B 1	(Matawan)			11	Lipht gray
9 K O	Eatontown	Gray sand over green sand	Lxcessive		Lieht grav
9 N 1	Navesink	Sand grave1	Good	Shallow	Vellow-brown
9T1	Tuxedo	11 (1)	11	11	11 11
C () 1	(Tinton)	Sands w/Bickenite	Indentifie	acon	Gray-brown
002	Delano	Sands v/glaucorite	Imperiect	here p	Gray -brown
020	Frenau	Glauconite (Floodplain)		11	Бголи
C2 4	Hanalapan	tt H	Poor	•	Darlera
C54	Johnson	Sand, silt and class			
		(floodnlain)	Vers poor	•	40 1 - 1 - 1 - 1

#### SLOPE CLASSES IN MONMOUTH COUNTY SOILS

Α.	7()'	Nearly flat slopes, little or no danger of crosion.
.1	2-3	Slopes moderately subject to crosion under clean cultivation.
( -	5- [ ()	Under tillage, slopes greatly subject to erosion but controllable with suitable practices.
')	(*)=1 5°	Slopes extremely subject to erosion under cultivation.
	.3-131	Slopes extremely subject to erosion under cultivation and not controllable under such use. Sod cover will protect soil.
	_ = =	Soils best protected by being kept in woodland.

\*A one percent slope = a drop of 1 foot in 100 feet of horizontal distance.

ACITY SOLL

Acid soil is found in many areas of Monmouth County and is considered to be a serious soil situation. The acidity is caused by a pyrite content. Then exposure to air sulphuric acid (H2SO4) is formed, killing or adversel, affection fish and plant life. The construction depth of acid soil in demmest. County is from 4-16 ft. with an extreme of 50 ft. which has been sit in NAO Earle. An area in the northern section of the County where the acid i rmation is near the surface has resulted in many problems including the inability to establish grass or ornamental plantings and serious or sion.

Acid soil seems to be limited to the Woodbury, Englishtown, Wenorah, Marshalltown and Navesink Formations. The Monmouth County Planning Board and the Soil Conservation Service, Freehold District have maps showing locations where acid soil has been exposed in Monmouth County.

## CABLE 5

#### LAND CLASSES IN MONMOUTH COUNTY

Class I	Very good land that is easily cultivated with ordinary liming, fertilizing, etc. Level, well-drained and easily worked.
Class II	Good land safely cultivated with easily applied practices. Some areas are droughty or may have imperfect drainage.
Class III	Moderately good land that can be cultivated with intensive practices. Lowland areas often require drainage. Upland areas subject to moderate to severe erosion.
Class IV	Fair land best suited to pasture and hay. Low-land areas require intensive drainage for successful cultivation.
Class V	Not recognized in Monmouth County.
Class VI	Suitable for grazing or forestry only.
Class VII	Useful for forestry only.
Class VIII	Land that is so steep, rough, sandy, wet, or severely eroded that it is best suited for wildlife.

#### WATERSHEDS AND STREAM FLOW

For many years the United States Geological Survey has been taking surface water measurements of selected streams in Monmouth County. streams continuously monitored are Swimming River, Shark River and the Manasquan River.

There are eight major watersheds in Monmouth County. These are Swimming-Navesink River, Shark River, Manasquan River, Crosswicks Creek, Doctors Creek, Manalapan Brook, Millstone River and the North Branch of the Metedeconk River. These major drainage basins can be broken down into smaller units as several brooks may make up one river or large stream and each one has its own drainage area.



## SWIMMING RIVER

The location of the water gage is 4.8 miles upstream from the river mouth and near the dam. The drainage area of this station is 48.5 square miles and records have been taken since August 1922. The gage measurements represent flow over dam spillway and through blowoff gates. The average discharge for the fifty-one year period ending 1973 was 78.4 cubic feet per second (cfs). The most recent data is that of 1973 and shows a range from 0.3 cfs to 2,740 cfs. The record discharge occurred on October 27, 1943 with a flow of 8,910 cfs.

#### SHARK RIVER BASIN

#### Near Neptune City

The water stage recorder is located on the left bank of the stream 100 feet upstream from bridge on Remson Mill Road and 1.7 miles from Neptune City. The drainage area of this gage is 9.96 square miles and the station has been in operation since October 1966. The average discharge over the first seven years (1966-1973) was 14.0 cfs. the range of discharges was 1.1 cfs to 245 cfs. The record discharge was 580 cfs on December 26, 1969.

#### Jumping Brook

The water-stage recorder is located on the left bank of Jumping Brook 50 feet downstream from the dam on Jumping Brook Reservoir and 1.4 miles west of Neptune City. The drainage area is 6.43 square miles and the period of record is from October 1966. The average discharge from 1966 to 1972 was 10.4 cfs. For 1973 the range of discharges was from a minimum of 2.4 cfs to 499. The record discharge was 1830 cfs on September 12, 1971.

- 9. Mingamahone Brook at Squankum, N.J. (At bridge on N. J. Rt. 524).
- 10. Squankum Brook at Lower Squankum, N. J. (At bridge on N. J. Rt. 549).
- 11. Manasquan River at Allenwood, N. J. (At bridge on Hospital Rd.).

#### PONDS AND LAKES

Numerous small lakes and ponds are found in Monmouth County. These water bodies are natural and man-made. A number of ponds lie near the Atlantic Coast and are a product of naturally dammed streams. Such water bodies are Deal Lake, Lake Como, Wreck Pond and Stockton Lake. Many other streams were dammed to supply water to saw and grist mills in the 18th and 19th centuries. In addition the Soil Conservation Service (SCS) has over the years assisted construction of ponds and lakes on farms and industrial and research establishments. Some of these SCS assisted projects are for irrigation purposes while others are for fire protection and recirculation water for airconditioners. The total number of ponds and lakes in the County now exceeds 800 or more than one per square mile on a county-wide basis.

# RESERVOIRS

There are at present only two major reservoirs for public drinking water supply in Monmouth County. These two are Swimming River and Glendola Reservoirs. The first of these supplies has been developed on the Swimming River, a tributary of the Navesink River. It is located upstream of Swimming River Road and the original reservoir was constructed in 1901. In recent years it was enlarged to provide a capacity of 2.6 billion gallons. The drainage area at the reservoir is 48 square miles.

The second reservoir is in the Glendola area of Wall Township and is operated as an off-river storage facility to provide storage for flows pumped from Shark River and Jumping Brook. The Glendola reservoir has a capacity of 1.0 billion gallons (E. T. Killam Assoc., 1970). In addition land has been acquired for a reservoir system on the Manasquan River. The first phase of this project will provide 10 million gallons per day (MGD) and the ultimate potential is estimated at 35 (MGD).

#### GROUNDWATER

Groundwater includes that water which is at or below the level in the zone of saturation where all openings in the rock (interstices) are filled with water under atmospheric, or greater, pressure (Jablonski, 1967). In the unconsolidated sediments that underlie Monmouth County groundwater fills the pore spaces or interstices between the individual grains of sediment. The saturated or groundwater zone may be classified into three main categories. An aquifer is a saturated bed, formation, or group of formations which yields water in enough quantity to be a significant source of supply. An aquiclude is a saturated bed, formation, or group of formations which yields minor amounts of water and through which there is little movement of water. An

aquitard is a saturated bed, formation, or group of formations which yields minor quantities of water but through which appreciable vertical leakage of water is possible. This vertical leakage enables water to move into a more permeable aquifer (Walton, 1970).

Aquifers fall into two major types. These are water-table and artesian aquifers. Water-table or unconfined aquifers contain groundwater at the top of the saturated portion which is under atmospheric pressure. An artesian aquifer occurs where impermeable bed overlie and underlie an aquifer completely filled with water and under pressure. If water is pumped at a high rate from an artesian aquifer it may change to a watertable aquifer.

Ideally an aquifer serves as a transmission conduit and storage reservoir. The aquifer transports water from recharge areas to surface bodies of water, wetlands, springs and elsewhere. As a storage reservoir it provides reserve water for use during periods when withdrawals exceed recharge (Walton, 1970). In Monmouth County most of the groundwater withdrawn has been taken from artesian aquifers. According to Jablonski (1967) the aquifers in the County occur under water-table conditions only in their outcrop areas.

Although ground water is generally abundant in Monmouth County, heavy oumping of deeper aquifers may lead to salt water intrusion. As mentioned earlier the Magothy and Raritan Formations and the Englishtown Formation are the most important aquifers in Monmouth County. Other important aquifers are the Navesink Formation, the Red Bank and Tinton Sands, Vincentown Fm., Kirkwood Fm. and the Cape May, Bridgeton, and Pensauken Formations. The geological map Figure 4 shows the outcrop pattern of these aquifers.

#### GROUNDWATER RECHARGE

An aquiler may be recharged through vertical leakage or by precipitation on the intake or outcros areas. Recharge direct from precipitation and or movement of surface water involves the vertical downward infiltration of groundwater through porous hedia. In humid areas (such as New Jersey) recharge from precipitation usually occurs during the spring months when evaporation is low and frequent rains prevail. During the summer and tail months evaporation is his a and soil requirements are such that little precipitation seeps down to the water table. Recharge during winter months when the ground is frozen is negligible (Walton, 1970). For these reasons total annual precipitation is not as significant an indicator of annual aquifer recharge as is the precipitation that takes place during the non-growing season (Jablonski, 1967).

The amount of precipitation that enters the aquifer depends upon several factors. Among these are the thickness and nature of the soil, the coolography, vegetal cover, soil moisture content, depth to the water table. The nature, intensity and distribution of rainfall and other precipitation and land use.

Deeply buried aquifers may be recharged, in part, by vertical leakage of water through unconsolidated deposits. This occurs primarily when the materials separating the aquifers are permeable. Most of the geologic

DES	LGN	AΤ	[ (	iZ

\_\_ NAME

#### DESCRIPTION

	Swimming River Reservoir	Scenic Wildlife Habitat Watershed-flood- plain Water Supply	Contains meadows, swamps, and bogs. Used as water supply for Northeastern Monmouth County. Recreational poten- (ial.
l	Poricy Park	Recreational Scenic Wildlife Habitat	In addition to a fine recreational area the Park contains a unique and valuable fossil assemblage.
15.	Pine Brook	Wildlife Habitat Watershed-Flood- plain	Well-developed floodplain surrounded by open forest. Mountain Laurel is plentiful. North of County Highway 537 is tide water.
16.	Shadow Lake Marsh	Wildlife Habitat Watershed-Flood- plain	This freshwater marsh at the head of Shadow Lake contains the normal association of plants found in a healthy marsh.
· ; ·	Thimble Brook	Scenic Wildlife Habitat Watershed-Flood plain	This tract of 290 acres contains a great variety of plant life including persimmon, wild azalea, princess pine (form of club moss) and a large number of mature black walnut trees.
18.	Whale Pond Brook	Wildlife Habitat Watershed-Flood- plain	Half of the area consists of typical hardwoods and the other half of open fields.
_ 19.	Marsh	Wildlife Habitat Watershed-Flood- plain	Marsh contains numerous reptiles and amphibians as well as plants such as sphagnum moss.
	Salt Water Marsh	Wildlife Habitat Coastal Flood- plain	Abundant Spartina present. Marsh a:- fords a good view of the Shrewsbur. River.
	Parkers Greek	Wildlife Habitat Coastal Floodplain Recreational	A large variety of plants and animals present. Land ranges from a dry disturbed area to saltmarsh. Raccoon, fox, muskrat, ducks, pheasants and many other small animals populate the area.
) J	Jim's Creek	Wildlife Habitat	Contains saltmarsh assemblage, including Spartina, Distichlis, etc. Turtles are very abundant also.
23.	Clayton Tract	Scenic Recreational	Scenic overlook of Trenton and sur- rounding area.
	Allentown Millpond	Scenic Wildlife Habitat Watershed-Flood- plain	A natural area with native populations of muskrats, raccoons, reptiles, trogs and birds. Presently a bird sanctuary.
	Hemlock Grove	Wildlife Habitat	The tract consists of a mature hemlock grove on Miers Farm.
26.	Doctor's Creek	Wildlife Habitat Watershed-Flood- plain	Tract contains a well-developed floodplain and marsh.

#### SUITABILITY BY PLANNING AREA

In 1967 the Monmouth County Planning Board adopted the planning area scheme to facilitate the planning process. Six such planning areas were developed and are shown in Figure 17. These planning areas are used in this report to discuss general county wide suitability. For the purposes of this report suitable means land that is lacking any significant natural feature such as wetlands, steep slopes or class I farm soils.

Some land may be more suitable than other land. A tract of land that is mostly wet or floodplain is less suitable for building than well drained land with a forest cover. Likewise land devoid of any significant natural feature may have a high value in an open state if it is the last undeveloped tract in a municipality with little or no parkland.

The following evaluations are based on the Monmouth County Development Suitability map completed in April, 1974. This map can be found in the inside back cover of this report. As can be seen from this map lighter areas are more suitable for development than darker areas. Some natural areas were not included on the map because of insufficient data or oversight. These areas include wetlands along the Navesink and Shrewsbury Rivers in Planning Areas I and II and ocean beaches in Planning Areas II, III and IV.

It should be stressed here that this section is only meant to be a general guide and that local towns should prepare detailed natural features studies of their own. This study will serve as a county overview and as an indicator of regional impacts.

# ₩Planning Area I

Matawan Creek
Gravelly Brook
Luppatatong Creek
Chingarora Creek
Flat Creek
Thornes Creek
Waylake Creek
Mahoras Brook
Pews Creek
Comptons Creek

Many Mind Creek Clay Pit Creek McClees Creek Poricy Brook Nut Swamp Brook Hop Brook Willow Brook Swimming River Navesink River

#### Planning Area II

Pine Brook Little Silver Creek Parkers Creek Oceanport Creek Turtle Mill Brook Branchport Creek Whale Pond Brook Navesink River Shrewsbury River

TABLE 10 The Natural Streams of the Planning Areas

#### PLANNING AREA I

Planning Area I comprises all the bayshore areas of the County, including Middletown Township, Atlantic Highlands, Highlands, Keansburg, Union Beach, Hazlet Township, Keyport, Matawan and Matawan and Holmdel Townships (see Figure 17).

This planning area is the second largest in the county and contained 30.2 percent of the total county population in 1974. This percentage is based on a Monmouth County Planning Board estimate of the January 1, 1974 county population.

Although this region is intensely developed along the Bayshore low-land and in Central Middletown, several large areas are still suitable for development. Such areas include lands along Highway #35 and Middle Road in Middletown and acreage along Navesink River Road in Middletown. In the long term, Planned Residential Developments (PRD's) could be considered for these lands along Navesink River Road. Such development can be sited in a natural setting with minimal effect on topography and natural drainage.

#### Sensitive Areas

The environmentally sensitive areas in Planning Area I are:

- 1. Drainage Basin and Steep Slope areas in Holmdel and Middletown which are part of the Swimming River Basin.
- 2. All stream flood plains.
- 3. Fresh and salt-water marshes especially in Union Beach, Keyport, Matawan, Belford, Port Monmouth, Atlantic Highlands and Clay Pit and McClees Creeks in Middletown.
- 4. Steep slope areas in the Navesink Highlands in Atlantic Highlands, Highlands and Middletown. These slopes have had a documented history of geologic unstability dating back to 1790.

#### Recommendations

As Planning Area I becomes more intensively developed and redeveloped, its open space and other recreational needs will greatly increase. Some of these needs will be met by Municipal, County, State and Federal Parks and recreation areas. The Wetlands Act of 1970 will further protect most of the remaining coastal marshlands. To round out these open space and recreational needs the following recommendations are made:

 Establish a system of linear greenbelts along primary and secondary waterways with links to Municipal and County Parks. Such greenbelts would both protect and preserve stream flood plains and stream valleys, aid in groundwater and aquifer recharge and provide both passive and active recreational ases. Such a system has already been adopted by Monmouth County in the Open Space Plan.

- Institute cluster, PUD and PRD zoning with strict maximum coverage standards.
- 3. Adopt soil erosion and sedimentation ordinances, tree removal and soil removal ordinances as well as property maintenance ordinances to protect the existing environment.
- 4. Protect existing lowlying areas along the Bayshore with coastal flood projects and limit further building within the coastal flood zone as defined by historic flood levels. In some cases it may be more economical to purchase flood prone buildings rather than resort to expensive flood control projects.
- 5. Establish protective measures for those areas listed as unique natural areas.

#### PLANNING AREA II

Planning Area II consists of Long Branch City, Shrewsbury Township and the Boroughs of Eatontown, Fair Haven, Little Silver, Monmouth Beach, New Shrewsbury (northern part), Oceanport, Red Bank, Rumson, Sea Bright, Shrewsbury and West Long Branch (see Figure 17). Based on the 1974 County population estimate Planning Area II contained 22.4 percent of the total County population in 1974.

This Planning Area is very intensely developed especially along the Atlantic Coastal Region and in the Red Bank-Fair Haven-Little Silver sector. The main areas suitable for development are in New Shrewsbury and Eatontown. In New Shrewsbury the area west of the Garden State Parkway is mostly suitable to highly suitable. In Eatontown the areas between Wyckoff Road, Wall Street and the Poplar Brook Flood Plain is also highly suitable for development. This area is estimated to be around 400 acres.

#### Sensitive Areas

There are many environmentally sensitive areas in Planning Area II which can and should be reserved for public open space areas. These areas include the following:

- 1. All ocean beaches.
- 2. White area in Fair Haven at corner of Fair Haven and Ridge roads now Green Acres lands (77 acres).

#### APPENDIX I

# A Partial List of Trees and Shrubs From Monmouth County (Source: Monmouth County Parks System)

#### TREES

White Ash Big-Toothed Aspen Atlantic White Cedar American Beech Gray Birch Box Elder American Chestnut Eastern Red-Cedar Eastern Hemlock Shagbark Hickory Ironwood Honey Locust Red Maple Red Mulberry Black Oak Chestnut Oak Pin Oak Pitch Pine White Pine Black Spruce Tree-of-Heaven Black Walnut Crack Willow

Green Ash Quaking Aspen Basswood Black Birch Black Gum Black Cherry Flowering Dogwood American Elm Pignut Hickory American Holly Black Locust Norway Maple Silver Maple White Mulberry Swamp White Oak White Oak Willow Oak Red Pine Sassafras Norway Spruce Water Tupelo Black Willow Weeping Willow

#### ${\tt SHRUBS}$

Pink Azalia
Wild Azalia
Blackberry
Blueberry
Choke Cherry
Coralberry
Red Osier Dogwood
Common Elderberry
Hawthorn
Inkberry
Sweet Pepperbush
Shadbush
Staghorn Sumac
Winged Sumac
Winterberry

Swamp Azalia
Southern Bayherry
Blackhaw
Common Buttonbush
Sand Cherry
Large Cranberry
Swamp Dogwood
Fetter-bush
Huckleberry
Mountain Laurel
Raspberry
Spicebush
Poison Sumac
Arrow-wood Viburnum
Witch-hazel

#### APPENDIX II

# Mammals and Reptiles Found in Monmouth County (Source: Monmouth County Parks System)

#### MAMMALS

Opossum Smokey Shrew Least Shrew Short-tail Shrew Starnose Mole Eastern Mole Keen's Myotis (bat) Little Brown Myotis Small-footed Myotis Silver-haired Bat Eastern Pipistrel Red Bat Big Brown Bat Hoary Bat Raccoon Longtail Weasel Mink River Otter Striped Skunk Red Fox

Gray Fox Woodchuck Eastern Chipmunk Eastern Gray Squirrel Red Squirrel Southern Flying Squirrel Beaver White-footed Mouse House Mouse Norway Rat Southern Bog Lemming Boreal Redback Vole Meadow Vole Pine Vole Muskrat Meadow Jumping Mouse Eastern Cottontail Rabbit New England Cottontail Virginia Whitetailed Deer European Hare

#### REPTILES

#### Lizards

Northern Fence

5 -Lined Skink

#### Turtles

Common Snapping
Wood Turtle
Musk Turtle
Diamond-Backed Terrapin
Eastern Box

Bog Turtle
Spotted Turtle
Eastern Mud
Eastern Painted
Red-Earred

#### Snakes

Eastern Smooth Earth Northern Brown Eastern Garter Eastern Hognose Northern Ringneck Northern Black Racer Black Rat Scarlet Eastern King Red-bellied Northern Water Eastern Ribbon Eastern Worm Rough Green Northern Pine Corn

Eastern Milk Timber Rattler

#### AMPHIBIANS

#### Toads

Eastern Spadefoot

Fowlers

#### Tree Frogs

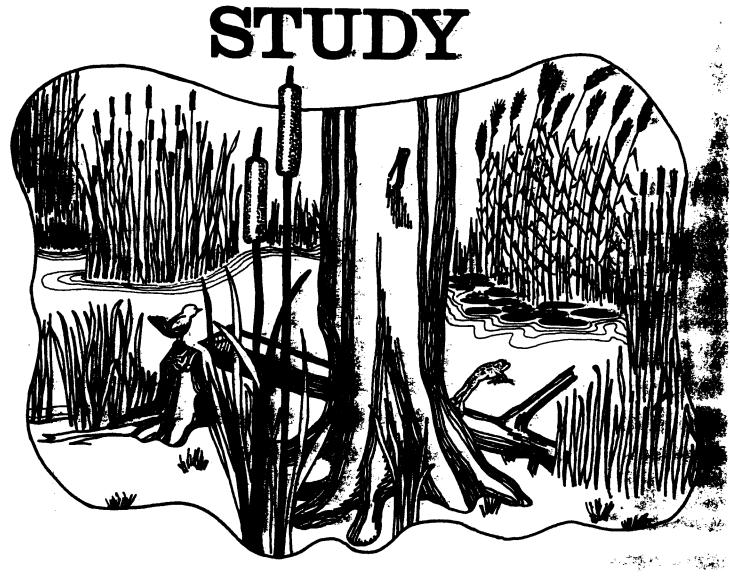
Spring Peeper Pine Barrens Gray New Jersey Chorus

#### True Frogs

Cricket Pickerel Northern Leopard Bull Carpenter Green Wood REFERENCE 32

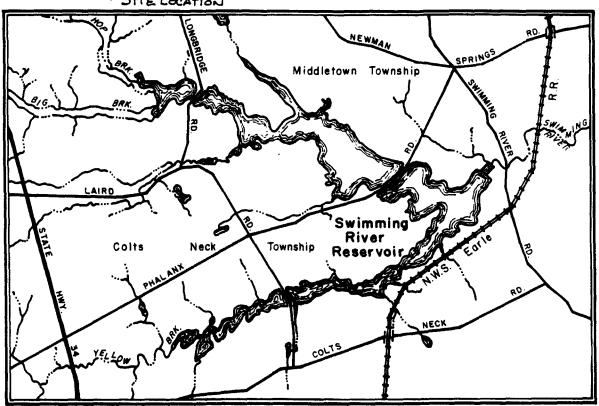
# Monmouth County

# UNIQUE AREAS



Prepared by the Monmouth County Environmental Council

December, 1978



#### LOCATION

The Swimming River Reservoir lies between Normandy and Willow Brook Roads, and Brookdale Community College and Laird Road in Colts Neck Township.

#### DESIGNATION

- 1. Wildlife Habitat
- 2. Recreational Swimming, canoeing, fishing, etc.
- 3. Watershed/Floodplain
- 4. Water Supply
- 5. Scenic

#### ECOSYSTEM DESCRIPTION

COMMUNITY: This area supports a beech-maple community with a number of tulip trees and locusts. The area seems to be in a mature successional state, with the vegetation perpetuating itself (i.e.

the saplings are the same species as the mature trees). The soil is mesic and consists mostly of highly permeable deep sands. The southwestern end, however, consists of high swelling potential clays with a nearly impermeable subhorizon and poor drainage.

#### **VEGETATION:**

In addition to the abundance of beech, maple, locust, tulip trees and in some areas oak, other species include sassafras, ironwood, sycamore and ash, with sumac, blackberry and inkberry growing near the water. Marsh grasses, <a href="Phragmites">Phragmites</a> and rushes are predominant in the marshy south-western end.

#### ORGANISMS:

Common forest mammals are present throughout the area along with a large population of songbirds and waterfowl. Amphibians and reptiles are common there and include watersnakes, turtles, frogs and salamanders. Large trout and other fish provide good sport for fishermen.

#### DISCUSSION:

Swimming River Reservoir, besides being a major water supply for the County, offers much in recreational services. There is an abundance of fish and the reservoir is large enough for boating. At present it is privately owned, but in the future the County Parks System may be allowed to utilize the lake for public use. Three areas would be designated as entry points, with the main entry Thompson Park in Lincroft. Two others would be located on Phalanx and Long Bridge Roads. The major problem in the plan would be to have sufficient personnel present for safety purposes.

23791

ERP No. D-MMS-A02224-00, Rating EO2, 1989 Central and Western Planning Areas Gulf of Mexico Outer Continental Shelf (OCS) Oil and Gas Sales No. 118 and 122, Lease Offerings offshore the coast of Alabama, Mississippi, Louisiana and Texas.

#### Summary

EPA expressed objections to the proposed action of unrestricted lessing in the Central and Western Gulf. EPA also expressed concern over the lack of any proposed mitigation for possible impacts to deep-water benthic communities. EPA also expressed concern that ozone modeling of the effect of offshore emission on onshore air quality be conducted.

ERP No. D-NPS-K61095-NV, Rating LO, Death Valley National Monument, General Management Plan, Implementation, Inyo and San Bernardino Counties, CA and Nye and Esmeralda Counties, NV.

#### Summary

EPA expressed a lack of objections to the proposed management plan but noted that future multiple use activities (mining, campgrounds) will require an assessment of air quality, surface water and ground water impacts.

#### Final EISe

ERP No. F-COE-H30000-IA. Des Moines Recreational River and Greenbelt Area. Development, Operation and Maintenance. Des Moines River, Webster, Hamilton. Boone. Dallas, Polk, and Warren Counties. IA.

#### Summarv

EPA has no objections to this project with the understanding that each unit of the project will be evaluated separately for NEPA compliance at a later date.

ERP No. P-FHW-F40290-WI, WI-TH-83 Improvement, I-94 to Cardinal Lane/ WI-TH-16. Funding and 404 Permit, Waukesha County, WL

#### Summery

EPA has no objection to this project, long as a minimum of 0.8 acre of additional wetlands are created.

(Note: The above summary should have appeared in the 6-10-68 Federal Register Notice.)

ERP No. F-USN-C85041-NJ, Colta Neck, Naval Weapons Station Earle Family Housing Development, Construction, Mammouth County, NJ.

#### Summerv

EPA's concern regarding the location of the mitigation site has been addressed in this document. In addition.

information within the document clarified our questions with respect to the delineation of wetlands, and the point of discharge of the wastewater treatment plant. Accordingly, EPA has no unresolved concerns regarding the implementation of the project as proposed.

ERP No. F-USN-D84005-VA, Empress II Operation, Electromagnetic Pulsa, Radiation Environment Simulator for Ships, Chesapeake Bay (West of Bloodsworth Island) and Atlantic Ocean (Virginia Capes Operating Area), off the Coast of VA.

#### Summery

EPA expressed a preference for the proposed site and requested a thorough monitoring program for the project.

(Note: The above summary should have appeared in the 6-17-88 Federal Register Notice.)

Dated: June 21, 1988.
William D. Dickersen,
Doputy Director. Office of Federal Activities.
[FR Doc. 88-14353 Filed 6-23-88; 8:45 am]
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#### [ER-FRL-3404-3]

Environmental Impact Statements; Availability; Weekly Receipts

Responsible Agency: Office of Federal Activities, General Information (202) 382-5073 or (202) 382-5075. Availability of Environmental Impact Statements, Filed June 13, 1988 Through June 17, 1988. Pursuant to 40 CFR 1508.9.

EIS No. 880189. Draft, BLM, AZ, San Pedro River Riparian Resource Management Plan, Implementation. San Simon Resource Area, Safford District, Cochise County, AZ, Due: September 21, 1968. Contact: Jerrold Coolidge (602) 428-4040.

EIS No. 880190, Draft, DOE, ND. Cherile Creek-Beiffeld 345 kV
Transmission Line Project, Construction, Operation and Maintenance.
Implementation, Billings, Stark, McKenzie and Dunn Counties, ND. Due: August 8, 1988, Contact: James D. Davis (406) 657–5525.

EIS No. 860191, Draft, SCS, MD, East Yellow Creek Watershed, Soil Erosion and Flood Demage Reduction Plan, Punding and Implementation, Sullivan, Lina and Chariton Counties, MO, Due: August 8, 1968, Contact: Russell C. Mills (314) 875-8214.

EIS No. 880192, Draft. NPS, AK, Denali National Park and Preserve, Wilderness Recommendations, Designation or Nondesignation, AK, Due: August 29, 1988, Contact: Linda Nebel (907) 257EIS No. 880193, Draft, AFS, WY, Little Bighorn River, Wild and Scenic River Study, National Wild and Scenic Rivers System. Designation, Bighorn National Forest, Sheridan County, WY, Due: September 22, 1988, Contact: Arthur Bauer (307) 872-8781.

EIS No. 880194, Draft, USN, PA. U.S. Navy Girard Point Site, Sale to the Philadelphia Muncipal Authority for the Establishment of a Steam Generation Facility that Produces Steam for Purchase by the U.S. Navy, City of Philadelphia, PA. Due: August 12, 1988, Contact: Kenneth Petrone (215) 897—8431.

EIS No. 880195. Final, FHW. PA. PA-23/New Holland Avenue/LR-1124.
Section 801 Relocation, US 30 to Walnut and Chestnut Streets. Funding and 404 Permit, Manheim. East Lampeter and Lancaster Townships and the City of Lancaster, Lancaster County, PA. Due: July 25, 1988. Contact: Philibert A. Queilet (712) 782-4422.

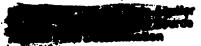
EIS No. 880196, Draft, FRC, REG.
Regulations Governing Independent
Power Producers (RM88-4-000) and
Regulations Governing Bidding
Programs (RM88-8-000),
Implementation, Due: August 15, 1968,
Contact: Gilda Rodriquez (202) 337-9185.

EIS No. 880197, Draft, SCS, MS, Whites Creek, Watershed Protection and Flood Prevention Plan, Funding, Possible 404 Permit and Implementation, Webster County, MS, Due: August 8, 1988, Contact: L. Peter Heard (601) 965— 5206.

EIS No. 880196, Draft. EPA. FL. CF Mining Complex II, Open Pit Phosphate Mine and Beneficiation Plan. Construction and Operation, NPDES and 404 Permits, Hardee County, FL. Due: August 8, 1988, Contact: Maryann Gerber (404) 347-3778.

Dated: June 23, 1988.
William D. Dickerson,
Deputy Director, Office of Federal Activities.
[FR Doc. 86–14352 Filed 6–23–88: 8:45 am]
SOLLING CODE 8880,60-86

#### (FRL-3340-F)



AGENCY: U.S. Environmental Protection Agency.

ACTION: Notice.

SUMMARY: Notice is hereby given that, pursuant to section 1424(e) of the Sefe Drinking Water Act, the Administrator of the U.S. Environmental Protection Agency (EPA) has determined that the

New Jersey Coastal Plain Aquifer System, underlying the New Jersey Coastal Plan Area, is the sole or principal source of drinking water for the Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Salem, Cumberland, Cape May and portions of Mercer and Middlesex Counties. New Jersey, and that the acquifer, if contaminated, would create a significant hazard to public health. As a result of this action EPA will review. Federally-assisted projects (projects which receive Federal financial assistance through a grant, contract, loan guarantee, or otherwise) proposed for construction in a project review area which includes the New Jersey Coastal Plain Area and a portion of the aquifer streamflow source zone. The streamflow source zone includes upstream portions of the Delaware River Basin in the States of Delaware, New Jersey, New York and Pennsylvania. Federallyassisted projects will be reviewed to ensure that they are designed and constructed so that they do not create a significant bazard to public health. Projects outside of the project review area but within the streamflow source zone will be reviewed if they require an Environmental Impact Statement (EIS). DATES: This determination shall be promulgated for purposes of judicial review at 1:00 P.M. Eastern Time on July 7, 1988. This determination shall become effective on August 8, 1988.

ADDRESSES: The data on which these findings are based, detailed maps of the New Jersey Coastal Plain Area and the project review area, a compilation of public comments and the Agency's response to those comments, are evailable to the public and may be inspected during normal business hours at the U.S. Environmental Protection Agency. Water Management Division, 26 Federal Plaza, New York, New York 10278. In addition, copies of a map showing the designated area and a responsiveness summary to public comment are available upon request. FOR FURTHER INFORMATION CONTACT: lohn Maileck, Chief, Office of Ground Water Management, Weter Management Division, 28 Federal Plaza. New York. New York 10278 (212) 284-**3835.** 

SUPPLEMENTARY INFORMATION: Notice is hereby given that pursuant to section 1424(e) of the Safe Drinking Water Act (42 U.S.C., 300f, 300h-3(e), Pub. L. 93–523), the Administrator of the U.S. Environmental Protection Agency (EPA) has determined that the New Jersey Coastal Plain Aquifer System, underlying the New Jersey Coastal Plain Area, is the sole or principal source of

drinking water for the Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Salem. Cumberland, Cape May and portions of Mercer and Middlesex Counties, New Jersey. Pursuant to section 1424(e). Federally-assisted projects proposed for construction in the New Jersey Coastal Plain Area and the project review area within portions of its streamflow source zone will be subject to EPA review. The streamflow source zone for the New Jersey Coastal Plain Aquifer System includes upstream portions of the Delaware River Basin in the States of Delaware (New Castle County), New Jersey (Mercer-part, Hunterdon-part, Sussex-part, and Warren Counties), New York (Delaware, Orange, Sullivan and Ulster Counties), and Pennsylvania (Berks-part, Bucks, Carbon-part, Chester-part, Delaware, Lackawannapart, Lancaster, Lehigh, Luzerne-part, Monroe Montgomery, Northampton, Philadelphia. Pike, Schuykill and Wayne Counties). The project review area includes that portion of the streamflow source zone which lies within two miles of the Delaware River in the States of New jersey (in Mercer, Hunterdon, Sussex and Warren Counties), Delaware (in New Castle County), Pennsylvania (in Delaware, Philadelphia, Bucks, Monroe, Northampton, Pike and Wayne Counties) and New York (in Delawere. Orange and Sullivan Counties).

#### L Background

Section 1424(e) of the Safe Drinking Water Act states: (e) If the Administrator determines, on his own initiative or upon petition, that an area has an equifer which is the sole or principal drinking water source for the area and which. if contaminated, would create a significant hazard to public. health, he shall publish notice of that determination in the Federal Register. After the publication of any such notice no commitment for Federal financial assistance (through a grant, contract. loan guarantee, or otherwise) may be entered into for any project which the Administrator determines may contaminate such aquifer through a recharge zone so as lo create asignificant hazard to public health, but a commitment for Federal financial assistance may, if authorized under another provision of law, be entered into to a plan or design the project to assure that it will not so contaminate the squifer.

On December 4, 1978 the
Environmental Defense Fund, Inc. and
the Sierra Club New Jersey Chapter
petitioned the EPA Administrator to
determine that the Counties of
Monmouth, Burlington, Ocean, Camden,

Gloucester, Atlantic, Salem. Cumberland, Cape May and portions of Mercer and Middlesex Counties. New Jersey, constitute an area whose aquifer system is "the sole or principal drinking water source for the area and which, if contaminated, would create a significant: hazard to public health." On March 21. 1979, EPA published the petition in the Federal Register. Public hearings on the petition request were held May 1. 15 and 17. 1979 in Lindenwold, Trenton. Freehold and Pomona, New Jersey, A. May 19, 1983 Federal Register notice announced the availability of additional technical information and the extension of public comment period to July 15.

#### IL Basis for Determination

Among the factors to be considered by the Administrator in connection with the designation of an area under section 1424(e) are:

(1) Whether the aquifer is the area's sole or principal source of drinking water and (2) whether contamination of the aquifer would create a significant hazard to public health.

On the basis of information available to this Agency, the Administrator has made the following findings, which are the basis for the determination noted above:

(1) The New Jersey Coastal Plain Area depends upon the underlying Coastal Plain Aquifer System for seventy-five (75) per cent or more of its drinking water to serve 3 million people.

(2) Data show that the formations of the New Jersey Coastal Plain Area are hydrologically interconnected such that they respond collectively as an interrelated aquifer system.

(3) If the aquifer system were to become contaminated, exposure of the persons served by the system would constitute a significant hazard to public health.

(4) Alternative supplies capable of providing fifty (50) per cent or more of the drinking water to the designated area are not available at similar economic costs.

The New Jersey Coastal Plain Aquifer System is highly susceptible to contamination through its recharge zone from a number of sources, including but not limited to, chemical spills, leachate from landfills, stormwater runoff, highway de-icing, faulty septic systems wastewater treatment systems and waste disposal legoons. The squifer is also susceptible to contamination to a lesser degree from the same sources, through its streamflow source zone. Since ground-water contamination can be difficult or impossible to reverse

completely and since the acquifer in this area is solely or principally relied upon for drinking water purposes by the population of the New Jersey Coastal Plain Area, contamination of the aquifer could nose a significant hazard to public health.

III. Description of the New Jersey
Coastal Plain Area Aquifer System, Its
Recharge Zone and Its Streamflow
Source Zone

The New Jersey Coustal Plain Aquifer System consists of a wedge-shaped mass of unconsolidated sediments composed of clay, silt, sand and gravel. The wedge thins to a feathered edge along the Fall Line and attains a thickness of over 6,000 feet at the tip of Cape May County, New Jersey.

These sediments range in age from Cretaceous to Holocene and can be classified as continental, coastal or marine deposits. There are five major aquifers within the Coastal Plain-Aquiler System. They are the Potomac-Raritan-Mugothy Aquifer System. Englishtown Aquifer, Wenonah-Mount Laurel Aquifer. Kirkwood Aquifer and the Cohansey Aquifer. Natural recharge to the New Jersey Coastal Plain Aquifer System occurs primarily through direct precipitation on the outcrop area of the geologic formations. A smaller component of natural recharge to the deeper layers of the system occurs by vertical leakage from the upper layers. This accounts for a small percentage of the total amount of recharge; however. over a large area and a long period of lime the amount of water transmitted. can be significant.

The New Jersey Coustal Plain Aquiferdischarges to the surface through streams, aprings and evapotranspiration. Many streams ultimately flow into bays or directly into the ocean. Development of the ground-water reservoir as a water supply source constitutes another discharge component which today accounts for a significant portion of discharge from the overall system. In certain areas (e.g. slong the Delaware River) heavy pumping has caused a reversal in the normal discharge from the aquiler (Raritan-Magothy) such that... the surface stream (Delaware River) now recharges the aquifer. This phenomenon implies that, in addition to the New Jersey Coastal Plain Area, the Delaware River Busin within Delaware. New Jersey, Pennsylvania and New York must be regarded as a streamflow source zone (an upstream headwaters area which drains into a recharge zone). which flows into the Coastal Plain Area.

## IV. Information Utilized in Determination

The information utilized in this determination includes the petition. written and verbal comments submitted by the public, and various technical publications. The above data are available to the public and may be inspected during normal business hours at the U.S. Environmental Protection Agency, Region II, Water Management Division, 28 Federal Plazs, New York, New York, 10278.

#### V. Project Review.

When the EPA Administrator publishes his determination for a sole or principal drinking water source, no commitment for Federal financial assistance muy be may if the Administrator finds that the Federallyassisted project may contaminate the aquifer through a recharge zone so as to creute a significant hazard to public bealth . . . Safe Drinking Water Act section 1424(e), 42 U.S.C. 300h-3(e). In many cases, these Federally-assisted projects would also be analyzed in an "Environmental Impact Statement" (EIS) under the National Environmental Policy Aci (NEPA). 42 U.S.C. 4332(2)(C). All EISs. as well as any other proposed Federal actions affecting an EPA program or responsibility, are required by Federal law (under the so-called "NEPA/309" process) 1 to be reviewed and commented upon by the EPA Administrator. Therefore, in order to streamline EPA's review of the possible environmental impacts on designated equifers, when an action is analyzed in an EIS, the two reviews will be consolidated, and both authorities will be cited. The EPA review (under the Safe Drinking Water Act) of Federallyassisted projects potentially affecting sole or principal source aquilers, will be included in the EPA review (under the "NEI'A/300" process) of any EIS accompanying the same Federallyassisted project. The letter transmitting EFA's comments on the final EIS to the lead agency will be the vehicle for informing the lead agency of EPA's actions under section 1424(e).

All Federally-assisted proposed projects will be reviewed, within the New Jersey Coastal Plain Area: (Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Sulem, Cumberland and Cape May, and portions of Mercer and Middlesex Counties, New Jersey (as delineated on maps included in the petition), and that

portion of the streamflow source zone which lies within two miles of the Delaware River in the States of New lersey (in Mercer, Hunterdon, Sussex and Warren Counties). Delaware (in New Castle County), Pennsylvania (in Delaware, Philadelphia, Bucks, Monroe, Northampton. Pike and Wayne Counties) and New York (in Delaware, Orange and Sullivan Counties) (as delineated on maps included in the public record). Outside the New Jersey Coastal Plain Area and further than two miles from the Dolaware River in the atreamflow source zone, only those Federally-assisted proposed projects requiring the preparation of an EIS will be reviewed. The Agency has chosen a two-mile limit for the project review area along the Delaware River based on the climate and hydrologic setting of the . arcs. The two-mile distance is consistent with the two-mile review radius included in the EPA guidelines for Ground-Water Classification and is protective of hunsan health.

## VI. Summary and Discussion of Public Comments

There has been much controversy over the possible designation of this aquiler system. The majority of the comments from the original 1979 public hearings were in direct opposition to such a designation. More than half of all responses received were against designation. Several commenters felt constrained by the original comment period and thereby requested an extension. EPA complied with this request on two occasions, once by announcing at the four public bearings it held throughout the area under consideration that the agency had extended the formal comment period from May 14, 1979, to December 31, 1979. and again in a May 19, 1983 Federal Register Notice that announced the availability of additional information and extension of the public comment period to July 15, 1983. Although a number of ground-water protection measures are available at the Federal. State and local level, none of these. either individually or collectively, permit EPA to act as directly as would a sole source aquifer designation in the review and approval of Federally-assisted projects. In addition, EPA feels that the sole source project review process will foster integration rather than duplication of environmental review efforts. Memoranda of Understanding have been negotiated with various Federal agencies with the purpose of streamlining the review process and minimizing project delays. Must of the commenters expressed concern that a

<sup>\*42</sup> U.S.C. § 7669 requires EPA to conduct this review. The "305" in a "NLPA/300" derives from the original source of this general requirement: Section 265 of the Chien Air Act.

designation would be a duplication of efforts siready existing on the state and local levels. Some commenters felt that a sofe source squifer designation would give EPA the power to reject any applications for Federally-funded projects indiscriminately and to delay any project underway. Another main concern of many commenters was that i designation would cause a strong negative economic impact on the area in question and curtail needed development, thus eliminating jobs. EPA is sympathetic to the concerns of the commenters: however, the Agency feels that a sole source aquifer designation would not interfere with economic development. Federal financiek assistance will be withheld only in those instances where it is determined that a proposed project may contaminate the scouler so as to create a significant hazard to public health and no acceptable remedial measures are evailable to prevent the potential huzard

Dated: June 16, 1988. Los M. Thomas, Administrator [FR Doc. 88-14283 Filed 6-23-88; 8:45 am] BRLLING CODE 6560-60-49

#### [OPTS-69645; FRL-3404-5]

Toxic and Hazardous Substances: Certain Chemicals Premanufacture

AGENCY: Environmental Protection Agency (EPA). ACTION: Notice.

SUMMARY: Section 5(s)(1) of the Toxic Substances Control Act (TSCA) requires any person who intends to menufacture or import a new chemical substance to submit a premanufacture notice (PAIN) to EPA at least 90 days before manufacture or import commences. Statutory requirements for section. 5(a)(1) premanufacture notices are discussed in the final rule published in the Federal Register of May 13, 1963 (48 FR 21722). In the Federal Register of November 12, 1984, (49 FR 46066) (49 CFR 723.250), EPA published a rule which granted a limited exemption from certain PMN requirements for certain types of polymers. Notices for such polymers are reviewed by EPA within 21 days of receipt. This notice amountees receipt of nine such PMNs and provides a summary of each

DATES: Close of Review Periods:

- Y 88-192, 88-193-June 5, 1986.
- Y 88-194-fune 7, 1988. Y 86-195-May 17, 1988.
- T 85-196-june 6, 7986.

Y 88-197-June 14, 1988.

Y 88-198-June 16, 1988.

Y 88-199-June 10, 1968.

Y 88-200-fune 23, 1968.

for further information contact: Stephanie Roan, Premanulacture Notice Management Branch, Chemical Control Division (TS-794), Office of Toxic Substances, Environmental Protection. Agency, Rm. E-611, 401 M Street SW., Washington, DC 20460 (202) 382-3725. Supplementary information: The following notice contains information: extracted from the non-confidential version of the submission provided by the manufacturer on the PMNs received by EPA. The complete non-confidencial document is available in the Public. Reading Room NE-GOOt at the above address between 8:00 a.m. and 4:00 p.m Monday through Friday, excluding legal hobdaya

#### Y 22\_192

Manufoctures. Confidential. Chemical. (G) Hydroxy function acrylic resin.

Use/Production. (S) Coatings. Prod. range: Confidential.

#### Y 88-193

Manufacturer. Confidential. Chemical. [G] Polyurethane resin. Use/Production. (S) Coating, Prod. range: Confidential

Manufacturer. Sybron Chemicals Inc. Chemical (G) Copolymer of aliphatic esters of 2-propendic acid with homocyclic and beterocyclic aromatic. vinyl compounds, reaction production. with alighatic polyam na.

Use/Production. (C) Waste and process water purification. Pred. range. Confidential

#### Y 20-195

Manufactures. Confidential. Chemical (G) Dibasic acid polyel polyester.

Use/Production. (G) Used in contings. Prod. range: Confidential.

#### Y 88-196

Manufactures. Confidential Chemical (S) Rosin. dicyclopentadione, dimes fatty acid polymer.

Use/Productions (S) Printing ink vehicles. Prod. range: 3.000,000-3.700,000 kg/yz.

#### Y 28-197

Monufacturer. Reichhold Chemicala. loc.

Chemical (C) Sunflower oil alkyd.

Use/Production. (S) Architectural. trade sales coating. Prod. range: Confidential

大きないというできないというできます。 大きな The Read Profes (1995年 1995年 Monufacturer: Confidential. Chemical (C) Allphatic polyester

Use/Production (G) Costings Produ range: Confidential.

Manufacturer. C.J. Osborn. Chemical (G) Polyester. Use/Production. (S) Pigmented as clear finish. Prod. range: Confidential.

#### Y 88-280

Monufactures. Confidential. Chemical (G) Styrene/acrylic copolymer.

Use/Production. Costings and inks. Prod. range: Confidential.

Dete: June 13, 1968. Steve Newburz-Rica Acting Chief. Public Date Branch. Information Management Division, Office of Taxic Substances. IFR Doc. 88-14292 Filed 8-23-88; 8:45 ami MILES CODE (MO-68-46

#### FEDERAL COMMUNICATIONS COMMISSION .

Public information Collection Requirement Submitted to Office of Management and Budget for Review

The Pederal Communications Commission has submitted the following information collection requirement to OMB for review and clearence under the Paperwork Reduction Act of 1988 (44 U.S.C. 35071

Copies of this submission may be purchased from the Commission's corre contractor, International Transcription Service. (202) 857-3800: 2100 M Street NW., Suite 140. Washington, DC 20037. For further information on this submission contact judy Boley. Federal Communications Commission, (202) 633-7513. Persons wishing to comment on this information collection should contact Yvette Flynn, Office of Management and Budget, Room 3235 NEOH, Washington, DC 20503, [202] 305-

CMB Number: 3000-0025. Title: Application for Restricted Radiotelephone Operator Permit-Limited Use.

Form Number: FCC 733. Action: Revision. Respondents: individuals or households.

# Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States
Environmental Protection
Agency

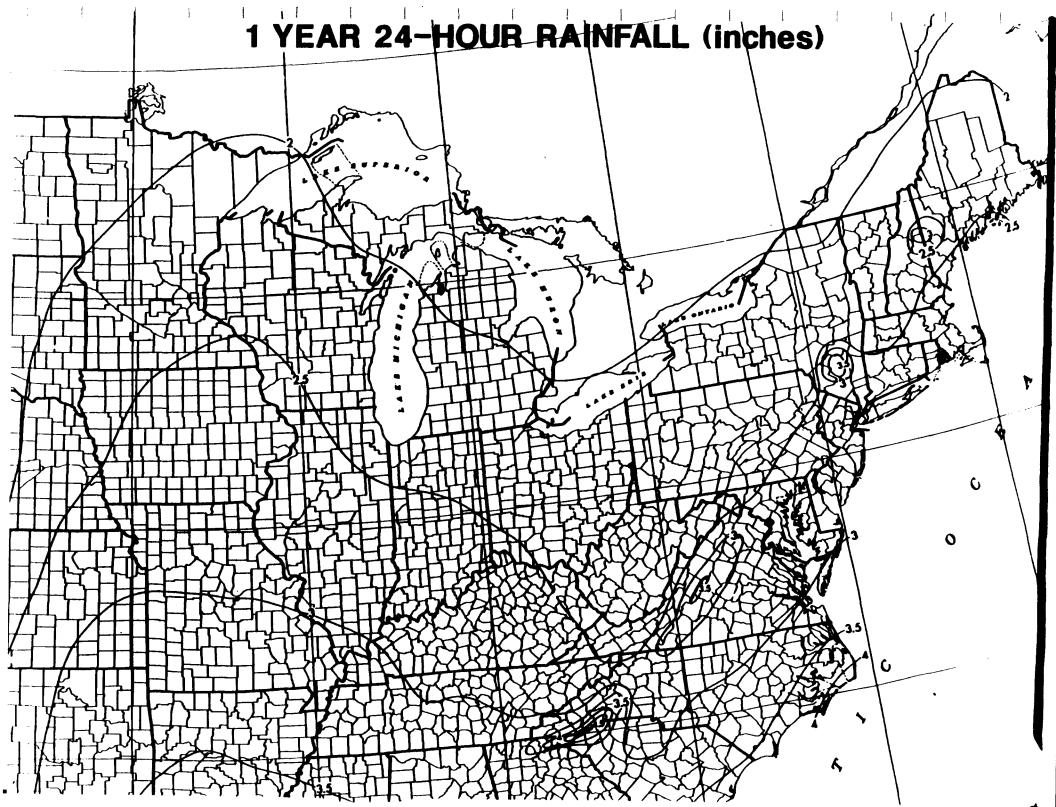
TABLE 2
PERMEABILITY OF GEOLOGIC MATERIALS\*

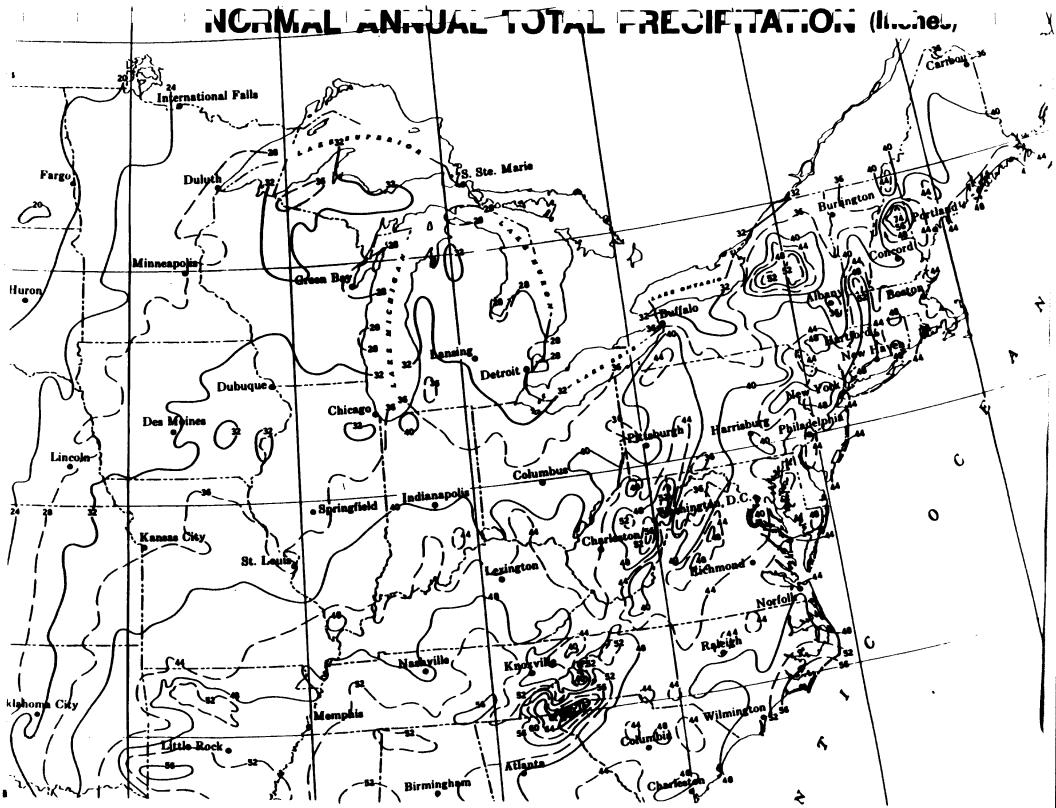
Type of Material	Approximate Lange of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured setsmorphic and igneous rocks	<10 <sup>-7</sup> cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	10 <sup>-5</sup> - 10 <sup>-7</sup> cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	10 <sup>-3</sup> - 10 <sup>-5</sup> cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable baselt and lavas; karst limestone and dolomite	>10 <sup>-3</sup> cm/eec	3

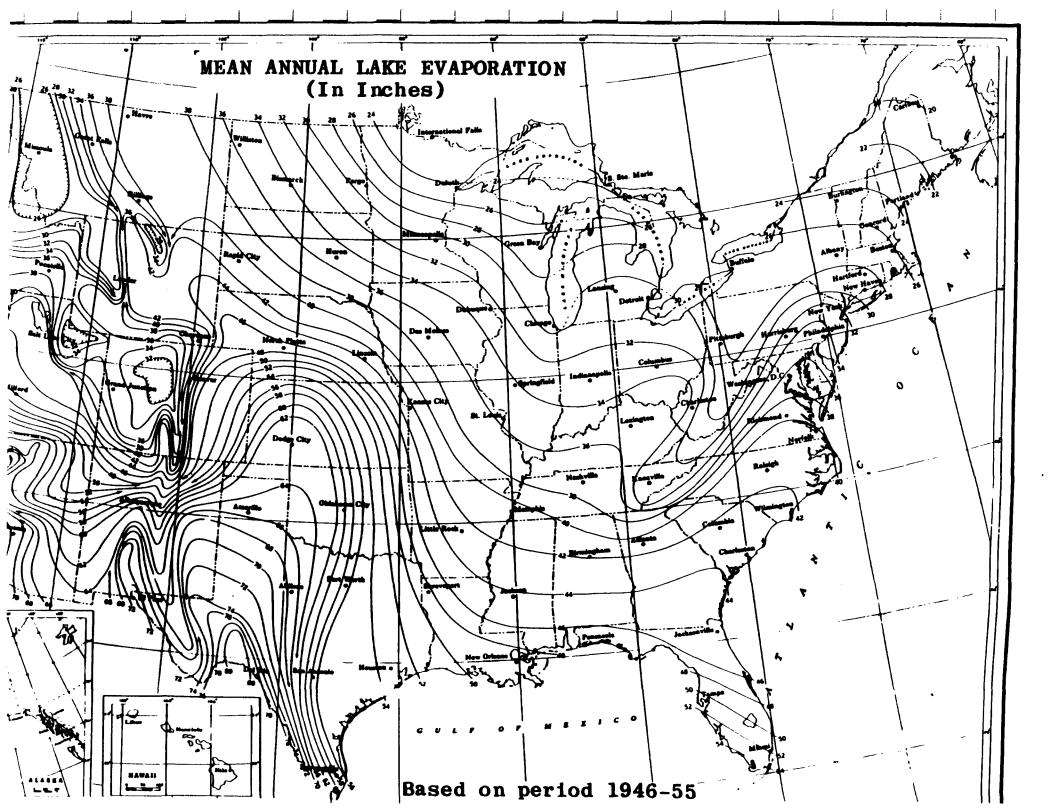
#### \*Derived from:

Davis, S. H., Porosity and Permeability of Matural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979







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NUS 067 REVISED 0685

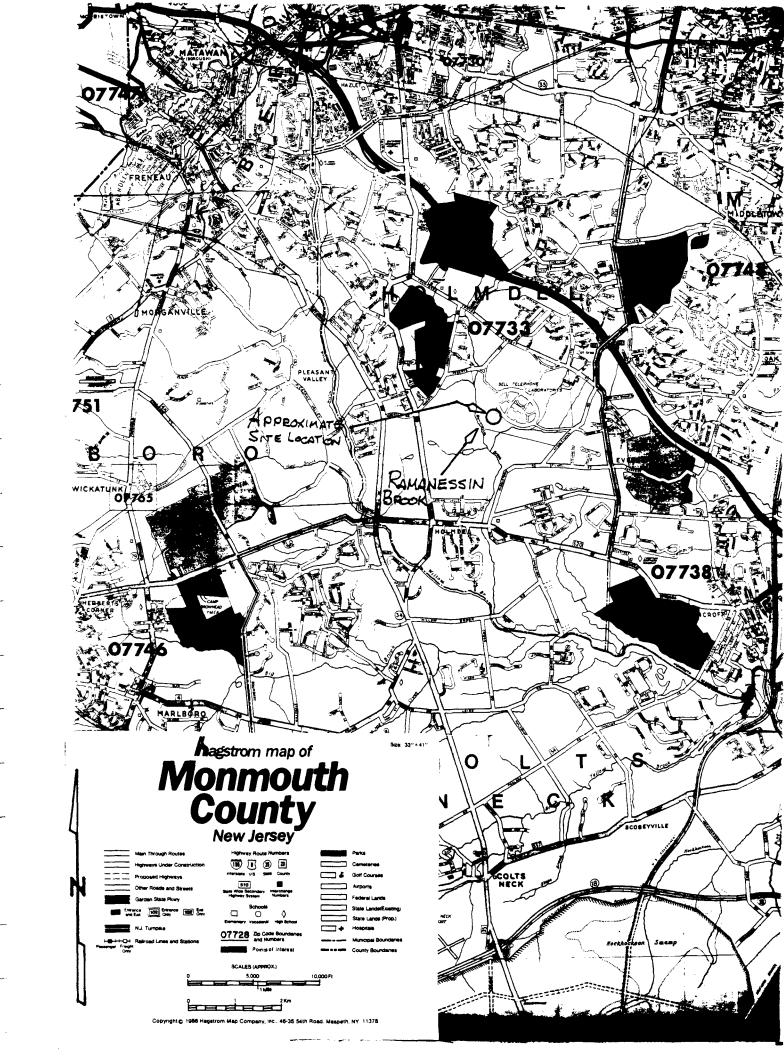
CONTROL NO.:	DATE:	TIME:
02-8909-12	9/27/89	4:00
DISTRIBUTION:	/	
		1
	·	
OWERS Illino	115 TAC.	
BETWEEN:	I OF:	PHONE:
	OF: NEW JERSEY AMERICAN WATER	, ,
Mr. Jim Scott	HMERICAN WATER	201 (842) 6900
AND:		
Joseph SoriA	40	(NUS)
DISCUSSION:		(403)
	- //	,
I asked 1	nr. Scott about wa	ter use a, thin
	faulity, Mr. Seat	,
		,
WAS PriMARILY US	ed for drinking A	thoughitis 4650
is and fine common	rescial, industria	1 man issis at man
11.	2	-
purposes. Ninety	to 85% of 7	he worker used
by the American	Water Co. is sur	Face water. The water
' /	Swimming River	
	7 1	,
NEIK N.S. Which	h is greater	THAN 5 MILES
Away from the	e site. Vonly A s	small part of
the propulation	of Holmdel is	served by the
	c Co. Most of	/
	4 (3)	, ,
	of the site is	,
ShorelAND Worter	Co. The America	AN WATER CO.
serve: A tot	12 mill	ion people in
23 municADAL.		,
ACTION ITEMS:		

# NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE** CONTROL NO .: DATE: 10/2/89 10 47 02-8909-12 DISTRIBUTION: OWENS ILLLINOIS Inc. OF: Shore LAND WATER PHONE: BETWEEN: Mr. Michal Walsh 201 (264) 5510 Company TOSEPH SORIANO (NUS) DISCUSSION: Asked Mr. WALSh if his office would with information on arounder GROUNDLEVA ACTION ITEMS:

ACTION ITEMS:

NUS 967 REVISED 9685

FOR 3-MILE RADIUS MAP SEE FOLDER IN BACK OF REPORT

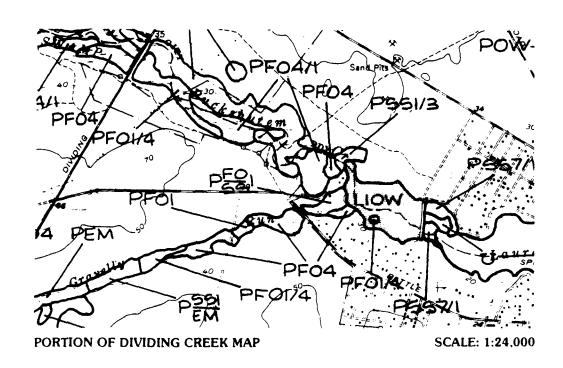


William & Williams

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# ATLAS OF NATIONAL WETLANDS INVENTORY MAPS FOR NEW JERSEY



# UNITED STATES DEPARTMENT OF THE INTERIOR Fish and Wildlife Service

Region Five

Habitat Resources

One Gateway Center, Suite 700

Newton Corner, Massachusetts

#### HOW TO USE THIS ATLAS

The Atlas contains reductions of all 1:24,000 National Wetlands Inventory maps. Maps appear in alphabetical order. Map names can be located on the index map (Figure 2). Each map shows the configuration, location and type of wetlands and deepwater habitats found within a given area.

#### WETLAND LEGEND

Wetland data are displayed on maps by a series of letters and numbers (alpha-numerics). Mixing of classes and subclasses are represented by a diagonal line. The more common symbols are shown below; less common symbols have been omitted for simplicity. For identifying these latter symbols, the reader should refer to an actual NWI map legend.

#### Examples of Alpha-numerics:

E2EMN6	=	Estuarine	(E), Intertidal(2), Emergent Wetland(EM),
		Reqularly	Flooded(N), Oligohaline(6)

```
E2FL = Estuarine(E), Intertidal(2), Flat(FL)
```

PEM/OW = Palustrine(P), Emergent Wetland/Open Water(EM/OW)

PFO/SS1 = Palustrine(P), Forested Wetland/Scrub-Shrub Wetland(FO/SS), Broad-leaved Deceduous(1)

#### SYMBOLOGY

SS7

#### Systems and Subsystems:

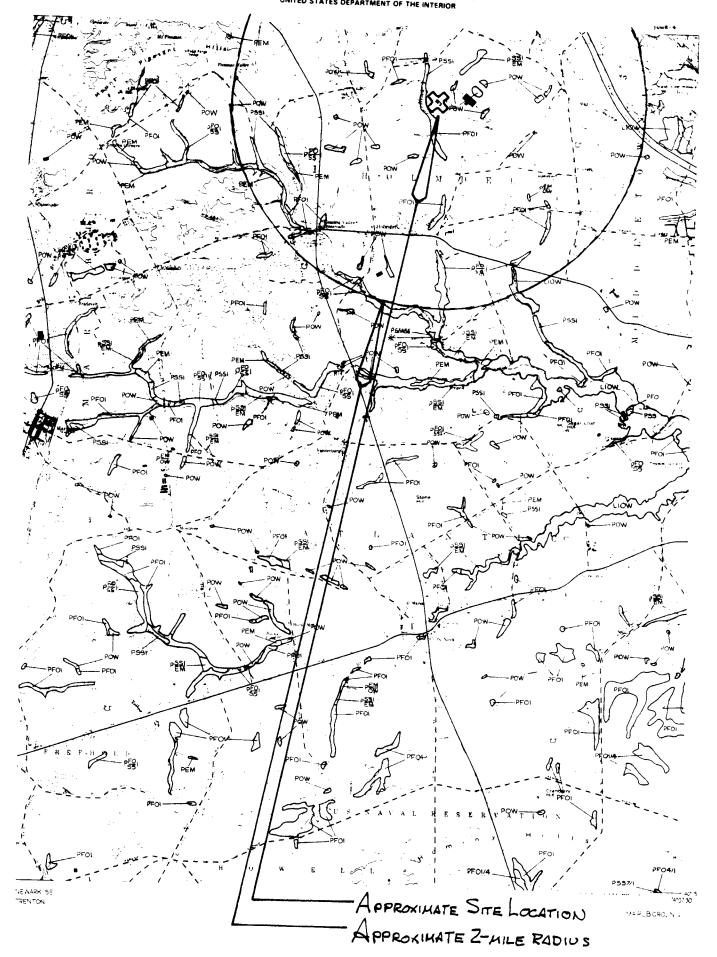
M 1	=	Marine Subtidal			Riverine Upper Perennial
M 2	=	Marine Intertidal	R 4	=	Riverine Intermittent
E 1	=	Estuarine Subtidal	L l	=	Lacustrine Limnetic
E 2	=	Estuarine Intertidal	L 2	=	Lacustrine Littoral
R 1	=	Riverine Tidal	P	=	Palustrine
R 2	=	Riverine Lower Perennial	Ü	=	Upland

#### Classes (subclasses and modifiers designated where appropriate):

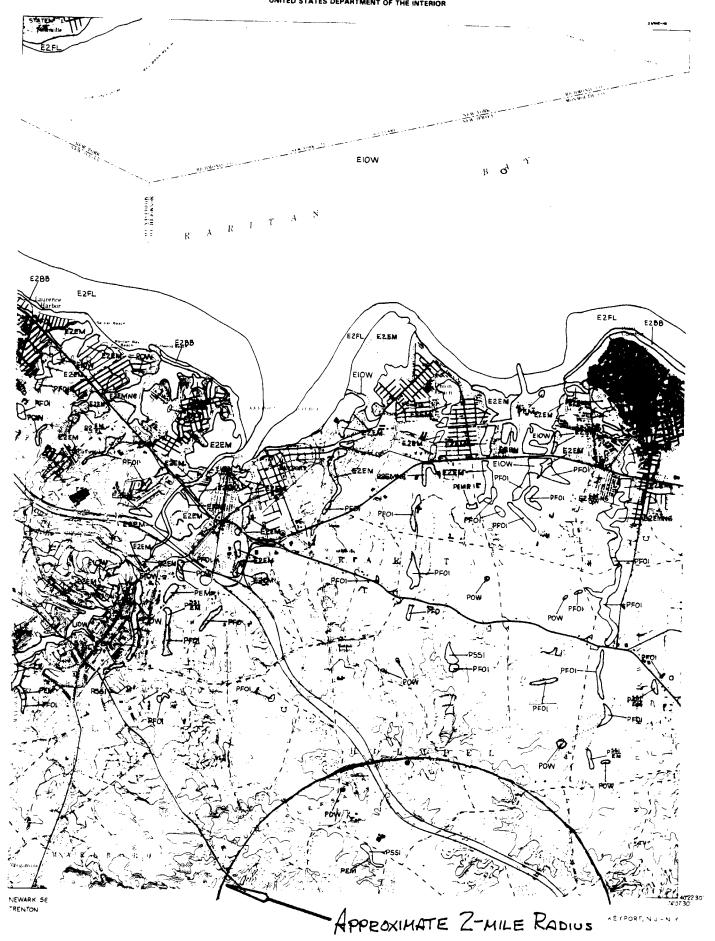
```
Aquatic Bed
AB
BB
       Beach/Bar
EM
        Emergent Wetland
            Emergent Wetland, Regularly Flooded, Oligohaline
    EMP6 =
            Emergent Wetland, Irregularly Flooded, Oligohaline
            Emergent Wetland, Seasonally Flooded-Tidal
    EMR
        Flat
FL
         Forested Wetland, Broad-leaved Deciduous
FO1
      = Forested Wetland, Needle-leaved Deciduous
FO2
      = Forested Wetland, Needle-leaved Evergreen
FO4
      = Open Water/Unknown Bottom
OW
         Scrub=Shrub Wetland, Broad-leaved Deciduous
SS1
      = Scrub-Shrub Wetland, Broad-leaved Evergreen
SS3
      = Scrub-Shrub Wetland, Needle-leaved Evergreen
SS4
SS5
      = Scrub-Shrub Wetland, Dead
```

= Scrub-Shrub Wetland, Evergreen

# NATIONAL WETLANDS INVENTORY UNITED STATES DEPARTMENT OF THE INTERIOR



# NATIONAL WETLANDS INVENTORY UNITED STATES DEPARTMENT OF THE INTERIOR



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## APRIE



#### Title 50—Wildlife and Fisheries

#### PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS

#### Subpart B-Lists

Source: 48 FR 34182, July 27, 1983, unless otherwise noted.

### § 17.11 Endangered and threatened wildlife.

(a) The list in this section contains the names of all species of wildlife which have been determined by the Services to be Endangered or Threatened. It also contains the names of species of wildlife treated as Endangered or Threatened because they are sufficiently similar in appearance to Endangered or Threatened species (see § 17.50 et seq.).

(b) The columns entitled "Common Name," "Scientific Name," and "Vertebrate Population Where Endangered or Threatened" define the species of wildlife within the meaning of the Act. Thus, differently classified geographic populations of the same vertebrate subspecies or species shall be identified by their differing geographic boundaries, even though the other two columns are identical. The term "Entire" means that all populations throughout the present range of a vertebrate species are listed. Although common names are included, they cannot be relied upon for identification of any specimen, since they may vary greatly in local usage. The Services shall use the most recently accepted scientific name. In cases in which confusion might arise, a synonym(s) will be provided in parentheses. The Services shall rely to the extent practicable on the International Code of Zoological Nomenclature.

(c) In the "Status" column the following symbols are used: "E" for Endangered, "T" for Threatened, and "E [or T] (S/A)" for similarity of appearance species.

(d) The other data in the list are nonregulatory in nature and are provided for the information of the reader. In the annual revision and compilation of this title, the following information may be amended without public notice: the spelling of species' names, historical range, footnotes, references to certain other applicable portions of this title, synonyms, and more current names. In any of these revised entries, neither the species, as defined in paragraph (b) of this section, nor its status may be changed without following the procedures of Part 424 of this title.

(e) The "historic range" indicates the known general distribution of the species or subspecies as reported in the current scientific literature. The present distribution may be greatly reduced from this historic range. This column does not imply any limitation on the application of the prohibitions in the Act or implementing rules. Such prohibitions apply to all individuals of the species, wherever found.

(f)(1) A footnote to the Federal Register publication(s) listing or reclassifying a species is indicated under the column "When listed." Footnote numbers to §§ 17.11 and 17.12 are in the same numerical sequence, since plants and animals may be listed in the same Federal Register document. That document, at least since 1973, includes a statement indicating the basis for the listing, as well as the effective date(s) of said listing.

(2) The "Special rules" and "Critical habitat" columns provide a cross reference to other sections in Parts 17, 222, 226, or 227. The "Special rules" column will also be used to cite the special rules that describe experimental populations and determine if they are essential or nonessential. Separate listing will be made for experimental populations, and the status column will include the following symbols: "XE" for an essential experimental population and "XN" for a nonessential

experimental population. The term "NA" (not applicable) appearing in either of these two columns indicates that there are no special rules and/or critical habitat for that particular species. However, all other appropriate rules in Parts 17, 217-227, and 402 still apply to that species. In addition, there may be other rules in this Title that relate to such wildlife, e.g., port-of-entry requirements. It is not intended that the references in the "Special rules" column list all the regulations of the two Services which might apply to the species or to the regulations of other Federal agencies or State or local governments.

(g) The listing of a particular taxon includes all lower taxonomic units. For example, the genus Hylobates (gibbons) is listed as Endangered throughout its entire range (China, India, and SE Asia); consequently, all species, subspecies, and populations of that genus are considered listed as Endangered for the purposes of the Act. In 1978 (43 FR 6230-6233) the species Haliaeetus leucocephalus (bald eagle) was listed as Threatened in "USA (WA, OR, MN, WI, MI)" rather than its entire population; thus, all individuals of the bald eagle found in those five States are considered listed as Threatened for the purposes of

(h) The "List of Endangered and Threatened Wildlife" is provided below:

Editorial Note: This is a compilation and special reprint of 50 CFR 17.11 and 17.12 and is current as of the date shown on the cover. Minor changes and corrections to the October 1, 1986, compilation of 50 CFR have been incorporated in this printing, as well as all published final rules that have subsequently appeared in the Federal Register. Otherwise no entry in these lists has been significantly affected. This list has been prepared by the staff of the Office of Endangered Species. U.S. Fish and Wildlife Service, Washington, D.C. 20240. Readers are requested to advise the Service of any errors in this list. Copies are available from the Publication Unit, US Fish and Wildlife Service, Washington, D.C.

Si	pecies		Vertebrate				
Common name	Scientific name	Historic range	population where endangered or threatened	Sta- tus	When listed	Critical habitat	
Mammals							
Anoa, lowland	Bubalus depressicornis (= B. anoa depressicornis).	Indonesia	Entire	E	3	NA	
Anoa, mountain	Bubalus quarlesi ( = B. anoa quarlesi)	do	do	E	15	NA	1
Antelope, giant sable	Hippotragus niger variani	. Angola	do	E	15	NA	ł
Argali	Ovis ammon hodgsoni	. China (Tibet, Himalayas)	do	E	15	NA	
Armadillo, giant	Priodontes maximus (= giganteus)	Venezuela and Guyana to Argentina	do	E	15	NA	
Armadillo, pink fairy	Chiamyphorus truncatus	. Argentina	do	E	3	NA.	]
Ass, African wild	Equus asinus (=africanus)	Somalia, Sudan, Ethiopia		Ε	3, 22	NA	
Ass, Asian wild (=kulan, onager)	Equus hemionus	Southwestern and Central Asia	Entire	E	3	NA	1
Avahi	Avahi (=Lichanotus) laniger (=entire genus).	Malagasy Republic (= Madagascar)		E	3	NA	
Ave-Ave	Daubentonia madagascariensis	Malagasy Republic (= Madagascar)	do	E	3	NA	1
Babirusa	Babyrousa babyrussa	Indonesia		Ē	15	NA	i
Baboon, gelada	Theropithecus gelada	Ethiopia		T	16	NA NA	17.
Bandicoot, barred	Perameles bougainville	Australia		Ė	4	NA NA	
Bandicoot, desert	Perameles eremiana	do		Ē	6	NA NA	i
Bandicoot, lesser rabbit	Macrotis leucura	do		Ē	4	NA NA	i
Bandicoot, pig-footed	Chaeropus ecaudatus	do		Ē	7	NA NA	l
Bandicoot, rabbit	Macrotis lagotis	do		Ē	4	NA I	i
Banteng	Bos javanicus (=banteng)	Southeast Asia		Ē	7	NA NA	
Bat, Bulmer's fruit (flying fox)	Aproteles bulmerae	Papua New Guinea		Ē	420	1	ii.
Bat, bumblebee	Craseonycteris thonglongyai				139	NA	
· ·	Myotis arisescens	Thailand		E	139	NA	
Bat, gray Bat, Hawaiian hoary	Lasiurus cinereus semotus	U.S.A. (HI)	do	E	13	NA	
			do	E	2	NA	
4 Bat, Indiana	Myotis sodalis	Eastern and Midwestern U.S.A	do	E	1	17.95(a)	
Bat, little Mariana fruit	Pteropus tokudae	Western Pacific Ocean: U.S.A. (Guam)	do	E	156	NA	
Bat, Mariana fruit	Pteropus mariannus mariannus	Western Pacific Ocean: U.S.A. (Guam, Rota, Tinian, Saipan, Agiguan).	Guam	E	156	NA	
Bat, Ozark big-eared	Plecotus townsendii ingens	U.S.A. (MO, OK, AR)	Entire	E	85	NA	
Bat, Rodrigues fruit (flying fox)	Pteropus rodricensis	Indian Ocean: Rodrigues Island	do	E	139	NA	
Bat, Singapore roundleaf horseshoe	Hipposideros ridleyi	Malaysia	do	E	139	NA	
Bat, Virginia big-eared	Plecotus townsendii virginianus	U.S.A. (KY, NC, WV, VA)	do	E	85	17.95(a)	
Bear, Baluchistan	Ursus thibetanus gedrosianus	Iran, Pakistan		E	233	NA	
Bear, brown	Ursus arctos pruinosus	China (Tibet)		E	15	NA	
Bear, brown	Ursus arctos arctos	Palearctic	Italy	E	15	NA	
Bear, brown or grizzly	Ursus arctos (= U.a. horribilis)	Holarctic	U.S.A.—48 conterminous	T	1, 2, 9	NA	17.4
Bear, brown or grizzly	Ursus arctos ( = U.a. nelsoni)	do	States. Mexico	E	3	NA	
Beaver	Castor fiber birulai	Mongolia	Entire	E	15	NA	
Bison, wood	Bison bison athabascae	Canada, Northwestern U.S.A	Canada	E	3	NA	
Bobcat	Felis rufus escuinapae	Central Mexico	Entire	ΕÌ	15	NA	
Bontebok (antelope)	Damaliscus dorcas dorcas	South Africa	do	E	15	NA	
Camel, Bactrian	Camelus bactrianus (=ferus)	Mongolia, China	do	Εİ	15	NA	

Species  Common name Scientific name		Historic range	Vertebrate population where endangered or	Sta- tus	When listed	Critical habitat	Specia rules
Continuir			threatened				 
Bristlebird, western	Dasyornis brachypterus longirostris			E	3	NA	N
ristlebird, western rufous	Dasyomis broadbenti littoralis			E	15	NA NA	N
roadbill, Guam	Myiagra freycineti	Western Pacific Ocean: U.S.A. (Guam)		E	156	NA	N
ulbul, Mauritius olivaceous	Hypsipetes borbonicus olivaceus	Indian Ocean: Mauritius	do	E	3	NA	N
ullfinch, Sao Miguel (finch)	Pyrrhula pyrrhula murina	Eastern Atlantic Ocean: Azores	do	Εİ	3	NA	N
ushwren. New Zealand		New Zealand		E	3	NA	N
ustard, great Indian	T			Ē	3	NA	N
ahow (=Bermuda Petrel)				Ē	3	NA	N
ondor, Andean			do	Ē	Ā	NA NA	N
ondor, California			U.S.A. only	Ē	71	17.95(b)	N
NOO, Camorina		nia).	,		•	17.93(0)	IN
oot, Hawaiian (=alae keo keo)			Entire	E	2	NA	N
tinga, banded			do	E	15	NA	N
tinga, white-winged			do	E	15	NA	N
ane, black-necked	Grus nigricollis	. China (Tibet)	do	E	15	NA	N
ane, Cuba sandhill		. West Indies: Cuba		Ē	15	NA	Ň
ane, hooded		•		Ē	4	NA	N
ane, Japanese				Ē	3	NA	Ň
ane, Mississippi sandhill			do	Ē	6	17.95(b)	N
ane, Siberian white		. U.S.S.R. (Siberia) to India, including Iran and China.	do	Ē	4	NA NA	N
ane, white-naped	Grus vipio	. Mongolia	do	Εĺ	15	NA	N
ane, whooping		(Canada, U.S.A. (Rocky Mountains east to Carolinas), Mexico.	do	Ē	1, 3	17.95(b)	N
eeper, Hawaii	Oreomystis (=Loxops) mana	U.S.A. (HI)	do	Εİ	10	NA	N
seper, Molokai (= kakawahie)		do		Ē	2	NA	N
eeper, Oahu (=alauwahio)		do	do	E	2	NA	N
ow, Hawaiian (='alala)	· · · · · · · · · · · · · · · · · · ·	do	do	E	1	NA	N
ow, Mariana		Western Pacific Ocean: U.S.A. (Guam,	do	Ĕ	156	NA	N.
, I THE REPORT OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O		Rota).		-	130	130	14
ckoo-shrike, Mauritius	Coquus (=Coracina) typicus	Indian Ocean: Mauritius	do	ΕÌ	3	NA Ì	N
ckoo-shrike, Reunion		Indian Ocean: Reunion		E	3	NA	N
rassow, razor-billed	Mitu (=Crax) mitu mitu	Brazil (Eastern)		Ē	15	NA	N
rassow, red-billed		Brazil	do	Ē		NA	N
rassow, Trinidad white-headed		West Indies: Trinidad		Ē	3	NA NA	N
rlew, Eskimo		XAlaska and northern Canada to Argenti-	do	Ē	1, 3	NA	N
ve, cloven-feathered	Drepanoptila holosericea	na. Southwest Pacific Ocean: New Caledonia.	do	E	3	NA	N
we, Grenada gray-fronted	Leptotila rufaxilla wellsi	West Indies: Grenada	do	Ε	3	NA	N
ck, Hawaiian (= koloa)	Anas wyvilliana	U.S.A. (HI)		Ē	1	NA	Ň
ck, Laysan	Anas laysanensis	do		F	i	NA	Ň
ck, pink-headed	Rhodonessa caryophyllacea	India	do	Ē	15	NA	N
ck, white-winged wood		India, Malaysia, Indonesia, Thailand	do	ĒΙ	3	NA NA	N
gle, bald		North America south to northern Mexico	U.S.A. (conterminous States, except	Ē	1, 34	NA	N
Oo	do	.do	WA, OR, MN, WI, MI). U.S.A. (WA, OR,	т	34	NA	17.41(a
			MN, WI, MI).	' !	J-1	14/4	

Species		Historic range	Vertebrate population where endangered or	Sta-	When listed	Critical habitat	Specia
Common name	Scientific name		threatened	lus	iisteu -	Habitat	rules
Eagle, Greenland white-tailed	Haliaeetus albicilla groenlandicus	Greenland and adjacent Atlantic islands		. E	15	NA	N
agle, harpy	Harpia harpyja	Mexico south to Argentina	do	. E	15	NA	N.
agle, Philippine (=monkey-eating)	Pithecophaga jefferyi		do	. Е	3	NA	N
agle, Spanish imperial	Aquila heliaca adalberti		Entire	. E	3	NA	N
gret, Chinese	Egretta eulophotes		do		3	NA	Ň
alcon, American peregrine		XNests from central Alaska across north-	do	Ē	2, 3, 145	17.95(b)	N N
aloon, randroan pologino		central Canada to central Mexico, winters south to South America.			2, 0, 140	17.00(0)	
alcon, Arctic peregrine	Falco peregrinus tundrius	XNests from northern Alaska to Green-	do	.) T	2, 3, 145	NA	N
		land; winters south to Central and South America.					
Falcon, Eurasian peregrine	Falco peregrinus peregrinus	Mideast.	do	E	15	NA	N
Falcon, northern aplomado	Falco femoralis septentrionalis	la.	do	E	216	NA	N
Falcon, peregrine		Worldwide, except Antarctica and most Pacific Islands.	Wherever found in wild in the conterminous 48 States.	E(S/A)	145	NA	N
finch, Laysan (honeycreeper)	Telespyza (=Psittirostra) cantans		Entire	E	1	NA	N/
inch, Nihoa (honeycreeper)	Telespyza (= Psittirostra) ultima	do	do	E	1	NA	N/
lycatcher, Euler's	Empidonax euleri johnstonei		do	E	3	NA	N/
lycatcher, Seychelles paradise	Terpsiphone corvina			E	3	NA	N/
lycatcher, Tahiti	Pomarea nigra			Ē	3	NA	N/
ody, Seychelles (weaver-finch)	Foudia sechellarum	Indian Ocean: Seychelles		Ē	3	NA	N/
rigatebird, Andrew's	Fregata andrewsi			Ē	15	NA NA	N/
Goose, Aleutian Canada	Branta canadensis leucopareia	U.S.A. (AK, CA, OR, WA), Japan		ਵੋ	1.3	NA NA	N/
ioose, Hawaiian (=nene)	Nesochen (= Branta) sandvicensis	U.S.A. (HI)		Ē	', 1	NA NA	N/
Soshawk, Christmas Island	Accipiter fasciatus natalis			E	3		
Grackle, slender-billed	Quisicalus (= Cassidix) palustris			E	3	NA NA	N/
	Amytornis goyderi					NA	N.
Grasswren, Eyrean (flycatcher)			do	E	3	NA	N.
Grebe, Atitlan	Podilymbus gigas	Guatemala	do	E	3	NA	N.
Greenshank, Nordmann's	Tringa guttifer	Borneo.	do	E _	15	NA	N.
uan, horned	Oreophasis derbianus		do	E	3	NA	N/
iuli, Audouin's	Larus audouinii			E	3	NA	N/
iull, relict	Larus relictus		do	E	15	NA	N/
ławk, Anjouan Island sparrow	Accipiter francesii pusillus			E	3	NA	N/
ławk, Galapagos	Buteo galapagoensis		do	) E)	3 )	NA	N/
lawk, Hawaiian (= lo)	Buteo solitarius			E	1	NA	N/
lermit, hook-billed (hummingbird)	Glaucis (=Ramphodon) dohrnii			E	15	NA	N/
loneycreeper, crested (='akohekohe)	Palmeria dolei		do	E	1	NA	N/
lombili, helmeted	Rhinoplax vigil			E	15	NA	N/
loneyeater, helmeted	Meliphaga cassidix			Ē	4	NA	N/
ois, Japanese crested	Nipponia nippon		do	Ē	3	NA	N/
(agu	Rhynochetos jubatus		do	E	3	NA	N/
(akapo (=owi-parrot)	Strigops habroptilus	New Zealand	do	Ē	š	NA	N/
(estrel, Mauritius	Falco punctatus		do	Ē	3	NA	N/
(estrei, Seychelles	Faico araea	Indian Ocean: Seychelles Islands	do	Ē	3	NA I	N/
Kingfisher, Guam Micronesian	Halcyon cinnamomina cinnamomina		do	Ē	156	NA	N/
(ite, Cuba hook-billed	Chondrohierax uncinatus wilsonii		do	Ē	130		
Kite, Everglade snail	Rostrhamus sociabilis plumbeus				3	NA I	N/
Kite, Grenada hook-billed	Chondrohierax uncinatus mirus	West Indies: Grenada	Florida	E	3	17.95(b) NA	NA NA



# Surface Water Classifications

Surface Water Quality Standards N.J.A.C. 7:9-4

PIGEON SWAMP (S. Brunswick) - All waters within the	FW2-NT(C1)
PINE BROOK (Cooks Mill) - Entire length PLEASANT RUN (Readington) - Entire length PRESCOTT BROOK (Stanton Station) - Entire length RAMANESSIN [HOP] BROOK (Holmdel) - Entire length RARITAN BAY - Entire Drainage RARITAN RIVER	FW2-NT FW2-NT FW2-TM FW2-NT FW2-TM FW2-TM FW2-NT/SE1
NORTH BRANCH (Also see INDIA BROOK) (Pleasant Valley) - Source to, but not including, Ravine Lake	FW2-TP(C1)
(Far Hills) - Ravine Lake dam to Rt. 512 bridge	FW2-TM
(Bedminster) - Rt. 512 bridge to confluence with South Branch, Raritan River SOUTH BRANCH RARITAN RIVER	FW2-NT
(Mt. Olive) - Source to the dam that is 390 feet upstream of the Flanders- Drakestown Road bridge	FW2-NT(C1)
(Mt. Olive) - Dam to confluence with Turkey Brook	FW2-TM(C1)
(Naughright) - Confluence with Turkey Brook to confluence with Electric Brook	FW2-TP(C1)
(Clinton) - Confluence with Electric Brook to downstream end of Packers Island, except segment described separately, below	FW2-TM
(Ken Lockwood Gorge) - River and tribu- taries within Ken Lockwood Gorge Wildlife Management Area	FW2-TM(C1)
(Neshanic Sta.) - Downstream end of Packers Island to confluence with North Branch, Raritan River MAIN STEM RARITAN RIVER	FW2-NT
(Bound Brook) - From confluence of North and South Branches to Landing Lane bridge in New Brunswick and all fresh- water tributaries downstream of Landing Lane bridge.	FW2-NT
(Sayreville) - Landing Lane bridge to Raritan Bay and all saline water tributaries	SE1
RINEHART BROOK (Hacklebarney) - Entire length ROCK BROOK (Montgomery) - Entire length ROCKAWAY CREEK NORTH BRANCH	FW2-TP(C1) FW2-NT
<pre>(Mountainville) - Source to Rt. 523 bridge (Whitehouse) - Rt. 523 bridge to confluence     with South Branch</pre>	FW2-TP(C1) FW2-TM

once-through basis for the duration of the test, in accordance with '.J.A.C. 7:18.

"Fresh water(s)" means all nontidal and tidal waters generally having a salinity, due to natural sources, of less than or equal to 3.5 parts per thousand at mean high tide.

"FW" means the general surface water classification applied to fresh waters.

"FW1" means those fresh waters that originate in and are wholly within Federal or State parks, forests, fish and wildlife lands, and other special holdings, that are to be maintained in their natural state of quality (set aside for posterity) and not subjected to any man-made wastewater discharges, as designated in Index A incorporated into this subchapter.

FW2" means the general surface water classification applied to those fresh waters that are not designated as FW1 or Pinelands Waters.

"Heat dissipation area" means a mixing zone, as may be designated by the Department, into which thermal effluents may be discharged for the purpose of mixing, dispersing, or dissipating such effluents without creating nuisances, hazardous conditions, or violating the provisions of this subchapter.

"Hypolimnion" means the lower region of a stratified waterbody that extends from the thermocline to the bottom of the waterbody, and is isolated from circulation with the upper waters, thereby receiving little or no oxygen from the atmosphere.

"Important species" means species that are commercially valuable (e.g., within the top ten species landed, by dollar value); recreationally valuable; threatened or endangered; critical to the organization and/or maintenance of the ecosystem; or other species necessary in the food web for the well-being of the species identified in this definition.

"Industrial water supply" means water used for processing or cooling.

"Intermittent stream" means a stream with a MA7CD10 flow of less than one-tenth (0.1) cubic foot per second.

"Lake, pond, or reservoir" means any impoundment, whether naturally occurring or created in whole or in part by the building of structures for the retention of surface water, excluding sedimentation control and stormwater retention/detention basins.

"LC50" means the median lethal concentration of a toxic substance, expressed as a statistical estimate of the concentration that kills 50 percent of the test organisms under

"Secondary contact recreation" means recreational activities where the probability of water ingestion is minimal and includes, but is not limited to, boating and fishing.

"Shellfish" means those mollusks commonly known as clams, oysters, or mussels.

"Shellfish waters" means waters classified as Approved, Seasonally Approved, Special Restricted, Seasonally Special Restricted or Condemned that support or possess the potential to support shellfish which are within the Coastal Area Facility Review Act (C.A.F.R.A.) zone as delineated in 1973, (excluding: 1 - The Cohansey River upstream of Brown's Run; 2 - The Maurice River upstream of Route 548; 3 - The Great Egg Harbor River upstream of Powell Creek; 4 - The Tuckahoe River upstream of Route 50; 5 - The Mullica River upstream of the Garden State Parkway) plus the adjacent areas between Route 35 (from its juncture with the C.A.F.R.A. zone just north of Red Bank to its juncture with the C.A.F.R.A. zone just south of Keyport) and the C.A.F.R.A. zone and the area from the C.A.F.R.A. zone on the south northwesterly along Route 35 to the northern shore of the Raritan River, then easterly along the northern shore of the Raritan River to the southeast point of Perth Amboy, the due east to the New Jersey jurisdictional limit, and seaward along the -urisdictional limit to the Atlantic Ocean.

"Stream temperature" means the temperature of a stream outside of a designated heat dissipation area.

"Surface water classifications" means names assigned by the Department in this subchapter to waters having the same designated uses and water quality criteria (e.g. FW1, PL, FW2-NT, SE1, SC, Zone 1C).

"Thermal alterations" means the increase or decrease in the temperature of surface waters, above or below the natural, that may be caused by the activities of man.

"Thermocline" means the plane of maximum rate of change in temperature with respect to depth.

"Tidal waters" means fresh or saline water under tidal influence, up to the head of tide.

"TM" means trout maintenance.

"TP" means trout production.

"Total residual chlorine" means the sum of the free and combined chlorine fractions that can be detected by methods approved under N.J.A.C. 7:18.

"Toxic substances" means those substances, or combination of substances, which upon exposure, ingestion, inhalation or

assimilation into any organism, either directly from the environment or indirectly through food chains, will, on the basis of the information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring.

 $\upred$ "Trout maintenance waters" means waters designated in this subchapter for the support of trout throughout the year.

"Trout production waters" means waters designated in this subchapter for use by trout for spawning or nursery purposes during their first summer.

"USEPA" means the United States Environmental Protection Agency.

"Water quality based effluent limitations" means effluent limitations established so that the quality of the waters receiving a discharge will meet the Water Quality Criteria and Policies of this subchapter after the introduction of the treated wastewaters.

"Zone" means the general surface water classification applied to the mainstem Delaware River and Delaware Bay.

#### 7:9-4.5 Statements of policy

- (a) General policies are as follows:
  - These Surface Water Quality Standards apply to all surface waters of the State.
  - 2. Water is vital to life and comprises an invaluable natural resource which is not to be abused by any segment of the State's population or economy. It is the policy of the State to restore, maintain and enhance the chemical, physical and biological integrity of its waters, to protect the public health, to safequard the aquatic biota, protect scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial, agricultural and other reasonable uses of the State's waters.
  - 3. Toxic substances in waters of the State shall not be at levels that are toxic to humans or the aquatic biota, or that bioaccumulate in the aquatic biota so as to render them unfit for human consumption.
  - The introduction of substances into the waters of the State in concentrations that are known to be carcinogenic, mutagenic, or teratogenic shall not be permitted. The Department shall direct its control efforts to require the removal of such substances from

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#### GEMS> I

ATT BELL LATITUDE			DNGITUDE	74:10:26	1980	POPULATION	
KM 0.00	400	.400810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6.40	SECTOR TOTALS
s 1	670	0	0	3962	10109	28647	43388
RING TOTALS	670	0	0	3962	10109	28647	43388
GEMS> I							
ATT BELL LATITUDE		RATORIES-H 121:50 L	OLMDEL ONGITUDE	74:10:26	1980 (	HOUSING	
KM 0.00	400	.400810	.810-1.60	1.60-3.20	3.20-4.60	4.80-6.40	SECTOR TOTALS
S 1	186	0	0	1030	2788	8417	12421
RING TOTALS	186	0	DISTANCE	1030 POPULATE		8417	12421
			(MILES)	670	186		
			0.50	670	186		
			1.00	670	186		
			2.00	4632	1216		
			3.00	14741	4004		

4.00 43388 12.421

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Thursday April 4, 1985 I

## **Selected Subjects**

#### Air Pollution Control

**Environmental Protection Agency** 

#### **Aviation Safety**

Federal Aviation Administration

#### **Bridges**

Coast Guard

#### Chemicals

**Environmental Protection Agency** 

#### Civil Rights

National Aeronautics and Space Administration

#### **Communications Common Carriers**

**Federal Communications Commission** 

#### Fisheries

National Oceanic and Atmospheric Administration

#### Flood Insurance

Federal Emergency Management Agency

#### **Government Procurement**

Defense Department

General Services Administration

National Aeronautics and Space Administration

#### **Imports**

Animal and Plant Health Inspection Service

#### **Inventions and Patents**

Commerce Department

CONTINUED INSIDE

suant to the Atomic Energy Act of 1954.

First Federal official means the first Federal representative of a participating agency of the National Response Team to arrive at the scene of a discharge or a release. This official coordinates activities under this Plan and may initiate, in consultation with the OSC, any necessary actions until the arrival of the predesignated OSC. A State with primary jurisdiction over a site covered by a cooperative agreement will act in the stead of the First Federal official for any incident at the site.

Fund or Trust Fund means the Hazardous Substance Response Trust Fund established by section 221 of CERCLA.

Ground water, as defined by section 101(12) of CERCLA, means water in a saturated zone or stratum beneath the surface of land or water.

Hazardous substance, as defined by section 101(14) of CERCLA, means: Any substance designated pursuant to section 311(b)(2)(A) of the CWA; any element, compound, mixture, solution, or substance designated pursuant to section 102 of CERCLA; any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (but not including any waste the regulation of which under the Solid Waste Disposal Act has been suspended by Act of Congress); any toxic pollutant listed under section 307(a) of the CWA: any hazardous air pollutant listed under section 112 of the Clean Air Act; and any imminently hazardous chemical substance or mixture with respect to which the Administrator has taken action pursuant to section 7 of the Toxic Substances Control Act. The term does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance in the first sentence of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas or synthetic gas usable for fuel (or mixtures of natural gas and such synthet-

Inland waters, for the purposes of classifying the size of discharges,

means those waters of the U.S. in the inland zone, waters of the Great Lakes, and specified ports and harbors on inland rivers.

Inland zone means the environment inland of the coastal zone excluding the Great Lakes and specified ports and harbors of inland rivers. The term inland zone delineates the area of Federal responsibility for response action. Precise boundaries are determined by EPA/USCG agreement and identified in Federal regional contingency plans.

Lead agency means the Federal agency (or State agency operating pursuant to a contract or cooperative agreement executed pursuant to section 104(d)(1) of CERCLA) that has primary responsibility for coordinating response action under this Plan. A Federal lead agency is the agency that provides the OSC or RPM as specified elsewhere in this Plan. In the case of a State as lead agency, the State shall carry out the same responsibilities delineated for OSCs/RPMs in this Plan (except coordinating and directing Federal agency response actions).

Management of migration means actions that are taken to minimize and mitigate the migration of hazardous substances or pollutants or contaminants and the effects of such migration. Management of migration actions may be appropriate where the hazardous substances or pollutants or contaminants are no longer at or near the area where they were originally located or situations where a source cannot be adequately identified or characterized. Measures may include, but are not limited to, provision of alternative water supplies, management of a plume of contamination, or treatment of a drinking water aquifer.

Natural resources, as defined by section 101(16) of CERCLA, means land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States (including the resources of fishery conservation zones established by the Magnuson Fishery Conservation and Management Act), any State or local government, or any foreign government.

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